VPDES PERMIT PROGRAM FACT SHEET

This document gives pertinent information concerning the VPDES Permit listed below. This permit is being processed as a MAJOR, MUNICIPAL permit.

l. PERMIT NO.: VA0081256 EXPIRATION DATE: 1/27/2013 FACILITY LOCATION ADDRESS (IF DIFFERENT) FACILITY NAME AND LOCAL MAILING ADDRESS Hampton Roads Sanitation District Boat Harbor STP 300 Terminal Ave 1436 Air Rail Ave Newport News, VA 23607 Virginia Beach, VA 23455 CONTACT AT FACILITY: CONTACT AT LOCATION ADDRESS NAME: N/A NAME: Jamie Heisig-Mitchell TITLE: Chief of Technical Services TITLE: **PHONE:** (757) 460-4220 PHONE: OWNER CONTACT: (TO RECEIVE PERMIT) CONSULTANT CONTACT: NAME: Mr. Edward G. Henifin NAME: N/A TITLE: General Manager FIRM NAME: COMPANY NAME: HRSD ADDRESS: ADDRESS: 1436 Air Rail Ave Virginia Beach, VA 23455 **PHONE**: (757) 460-2261 PHONE: (PERMIT DRAFTED BY: DEQ, Water Permits, Regional Office Permit Writer(s): Deanna Austin Date(s): 5/3/12-5/25/12 Date(s): 6/1/17 Reviewed By: Mark Sauer PERMIT ACTION: () Revoke & Reissue () Owner Modification () Issuance (X) Reissuance () Board Modification () Change of Ownership/Name [Effective Date: SUMMARY OF SPECIFIC ATTACHMENTS LABELED AS: б. Attachment 1 Site Inspection Report/Memorandum Attachment 2 Discharge Location/Topographic Map Attachment_3_ Schematic/Plans & Specs/Site Map/Water Balance Attachment 4 TABLE I - Discharge/Outfall Description TABLE II - Effluent Monitoring/Limitations Attachment Effluent Limitations/Monitoring Rationale/Suitable Attachment 6 Data/Antidegradation/Antibacksliding Special Conditions Rationale Attachment 7 Toxics Monitoring/Toxics Reduction/WET Limit Rationale Attachment Attachment Material Stored Receiving Waters Info./Tier Determination/STORET Data/Stream Attachment 9 Modeling Attachment 9 303(d) Listed Segments Attachment_10_ TABLE III(a) and TABLE III(b) - Change Sheets Attachment_11_ NPDES Industrial Permit Rating Worksheet and EPA Permit Checklist Attachment 12 Chronology Sheet Attachment Public Participation

APPLICATION COMPLETE: VDH Response 5/10/12 DSS \$/ | /12

PERMIT CHARACTERIZATION:	(Check as mar	y as appropriate;
<pre>(X) Existing Discharge () Proposed Discharge (X) Municipal</pre>	(X) () () () () () () () (X) (X) (X) (X) (X) (X) (X) (X) (X) (X) (Effluent Limited Water Quality Limited WET Limit Interim Limits in Permit Interim Limits in Other Document Compliance Schedule Required Site Specific WQ Criteria Variance to WQ Standards Water Effects Ratio Discharge to 303(d) Listed Segment Toxics Management Program Required Toxics Reduction Evaluation Storm Water Management Plan Pretreatment Program Required Possible Interstate Effect CBP Significant Dischargers List
8. RECEIVING WATERS C	LASSIFICATION:	River basin information.
Outfall No: 001, 0	08-014	
Basin: Subbasin: Section: Class: Special Standard(s Tidal: 7-Day/10-Year Low 1-Day/10-Year Low 30-Day/5-Year Low Harmonic Mean Flow	2-JMS006.7-007. James River (Lo NA 1 II): a, z, bb YES Flow: N/A Flow: N/A Flow: N/A	4
Outfall No(s): 003	-007	
River Mile: Basin:	2-NPC000.3-001 James River (Lo N/A 1 II i): a, z, bb YES Flow: N/A Flow: N/A Flow: N/A	
originate.		pe facility from which the discharges alting from the discharge of treated domestic
LICENSED OPERATOR REQUIR	EMENTS: () No	(X) Yes Class: I
RELIABILITY CLASS: I		

9.

10.

11.

	Performed By: Mark Kidd
	SEE ATTACHMENT 1
13.	DISCHARGE(S) LOCATION DESCRIPTION: Provide USGS Topo which indicates the discharge location, significant (large) discharger(s) to the receiving stream, water intakes, and other items of interest.
	Name of Topo: Norfolk, North Quadrant No.: 36A SEE ATTACHMENT 2
14.	ATTACH A SCHEMATIC OF THE WASTEWATER TREATMENT SYSTEM(S) [IND. & MUN.]. FOR INDUSTRIAL FACILITIES, PROVIDE A GENERAL DESCRIPTION OF THE PRODUCTION CYCLE(S) AND ACTIVITIES. FOR MUNICIPAL FACILITIES, PROVIDE A GENERAL DESCRIPTION OF THE TREATMENT PROVIDED.
	<u>Marrative</u> : Treatment at this facility includes raw influent pumps, flow measurement, screening, grit removal, primary and secondary clarification activated sludge aeration, chlorination and dechlorination. Solids handling consists of centrifuge dewatering, floatation thickening and incineration. SEE ATTACHMENT 3
15.	DISCHARGE DESCRIPTION: Describe each discharge originating from this facility.
	SEE ATTACHMENT 4
16.	COMBINED TOTAL FLOW:
	TOTAL:25 MGD (for public notice)
	PROCESS FLOW: MGD (IND.)
	NONPROCESS/RAINFALL DEPENDENT FLOW: 0.015 (Est.)
	DESIGN FLOW: 25 MGD (MUN.)
17.	STATUTORY OR REGULATORY BASIS FOR EFFLUENT LIMITATIONS AND SPECIAL CONDITIONS: (Check all which are appropriate)
	X State Water Control Law X Clean Water Act X VPDES Permit Regulation (9 VAC 25-31-10 et seq.) X EPA NPDES Regulation (Federal Register) EPA Effluent Guidelines (40 CFR 133 or 400 - 471) X Water Quality Standards (9 VAC 25-260-5 et seq.) Wasteload Allocation from a TMDL or River Basin Plan
18.	EFFLUENT LIMITATIONS/MONITORING: Provide all limitations and monitoring requirements being placed on each outfall.
	SEE TABLE II - ATTACHMENT 5

12. SITE INSPECTION DATE: 5/6/11 REPORT DATE: 5/12/11

19. EFFLUENT LIMITATIONS/MONITORING RATIONALE: Attach any analyses of an outfall by individual toxic parameter. As a minimum, it will include: statistics summary (number of data values; quantification level, expected value, variance, covariance, 97th percentile, and statistical method); wasteload allocation (acute, chronic and human health); effluent limitations determination; input data listing. Include all calculations used for each outfall and set of effluent limits and those used in any model(s). Include all calculations/documentation of any antidegradation or antibacksliding issues in the development of any limitations; complete the review statements below. Provide a rationale for limiting internal waste streams and indicator pollutants. Attach chlorine mass balance calculations, if performed. Attach any additional information used to develop the limitations, including any applicable water quality standards calculations (acute, chronic and human health).

OTHER CONSIDERATIONS IN LIMITATIONS DEVELOPMENT:

<u>VARIANCES/ALTERNATE LIMITATIONS</u>: Provide justification or refutation rationale for requested variances or alternatives to required permit conditions/limitations. This includes, but is not limited to: waivers from testing requirements; variances from technology guidelines or water quality standards; WER/translator study consideration; variances from standard permit limits/conditions.

No variances were given during this permit reissuance.

SUITABLE DATA: In what, if any, effluent data were considered in the establishment of effluent limitations and provide all appropriate information/calculations.

All suitable effluent data were reviewed.

ANTIDEGRADATION REVIEW: Provide all appropriate information/calculations for the antidegradation review.

The receiving stream has been classified as tier 1; therefore, no further review is needed. Permit limits have been established by determining wasteload allocations which will result in attaining and/or maintaining all water quality criteria which apply to the receiving stream, including narrative criteria. These wasteload allocations will provide for the protection and maintenance of all existing uses.

ANTIBACKSLIDING REVIEW: Indicate if antibacksliding applies to this permit and, if so, provide all appropriate information.

There are no backsliding issues to address in this permit (i.e., limits as stringent or more stringent when compared to the previous permit).

SEE ATTACHMENT 6

20. SPECIAL CONDITIONS RATIONALE: Provide a rationale for each of the permit's special conditions.

SEE ATTACHMENT 7

21. TOXICS MONITORING/TOXICS REDUCTION AND WET LIMIT SPECIAL CONDITIONS RATIONALE:

Provide the justification for any toxics monitoring program and/or toxics reduction program and WET limit.

SEE ATTACHMENT 8

22. <u>SLUDGE DISPOSAL PLAN</u>: Provide a description of the sludge disposal plan (e.g., type sludge, treatment provided and disposal method). Indicate if any of the plan elements are included within the permit.

Sludge from this facility are incinerated in one of two onsite multiple hearth incinerators. Alternative disposal plans include transport to another HRSD incinerator or hauling to an approved landfill for disposal.

23. MATERIAL STORED: List the type and quantity of wastes, fluids, or pollutants being stored at this facility. Briefly describe the storage facilities and list, if any, measures taken to prevent the stored material from reaching State waters.

The materials stored on site include sodium hypochlorite, sodium bisulfate, sodium hydroxide, ferric chloride, polymer, fuel oil, muriatic acid, gasoline and diesel fuel. The materials are either stored in buildings with drains connected to the treatment system or are in contained areas. Fuel tanks are double walled.

24. RECEIVING WATERS INFORMATION: Refer to the State Water Control Board's Water Quality Standards [e.g., River Basin Section Tables (9 VAC 25-260-5 et seq.). Use 9 VAC 25-260-140 C (introduction and numbered paragraph) to address tidal waters where fresh water standards would be applied or transitional waters where the most stringent of fresh or salt water standards would be applied. Attach any memoranda or other information which helped to develop permit conditions (i.e. tier determinations, PReP complaints, special water quality studies, STORET data and other biological and/or chemical data, etc.

SEE ATTACHMENT 9

25 <u>305(b)/303(d) Listed Segments</u>: Indicate if the facility discharges to a segment that is listed on the current 303(d) list and, if so, provide all appropriate information/calculations.

This facility discharges directly to the James River. This receiving stream segment has been listed in Category 5 of the 305(b)/303(d) list for non-attainment of DO, Chlorophyll a, PCB in Fish Tissue, and Aquatic Life, . EPA approved the Chesapeake Bay TMDL on 12/29/10. for this segment for nitrogen, phosphorus and TSS. Because an aggregated WLA exists, the permit did not receive an individual WLA. The aggregated WLA is presented as a delivered load for each of the impaired 92 Bay segments.

The Water Quality Management Plan covered under regulation 9 VAC25-720-120C provides the WLAs for which the Nutrient GP are based from.

26. CHANGES TO PERMIT: Use TABLE III(a) to record any changes from the previous permit and the rationale for those changes. Use TABLE III(b) to record any changes made to the permit during the permit processing period and the rationale for those changes [i.e., use for comments from the applicant, VDH, EPA, other agencies and/or the public where comments resulted in changes to the permit limitations or any other changes associated with the special conditions or reporting requirements].

SEE ATTACHMENT 10

- 27. NPDES INDUSTRIAL PERMIT RATING WORKSHEET: N/A This is a municipal facility.
- 28. <u>DEQ PLANNING COMMENTS RECEIVED ON DRAFT PERMIT</u>: Document any comments received from DEQ planning.

The discharge is addressed in the water quality management plan and appears to be in conformance.

29. <u>PUBLIC PARTICIPATION</u>: Document comments/responses received during the public participation process. If comments/responses provided, especially if they result in changes to the permit, place in the attachment.

<u>VDH/DSS COMMENTS RECEIVED ON DRAFT PERMIT</u>: Document any comments received from the Virginia Dept. of Health and the Div. of Shellfish Sanitation and noted how resolved.

The VDH reviewed the application and waived their right to comment and/or object on the adequacy of the draft permit. Memo received 5/10/12.

The DSS has no comments on the application/draft permit. Memo received 6/1/12.

EPA COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from the U.S. Environmental Protection Agency and noted how resolved.

EPA has no objections to the adequacy of the draft permit. Email received 7/13/12.

ADJACENT STATE COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from an adjacent state and noted how resolved.

Not Applicable.

OTHER AGENCY COMMENTS RECEIVED ON DRAFT PERMIT: Document any comments received from any other agencies (e.g., VIMS, VMRC, DGIF, etc.) and noted how resolved.

Not Applicable.

OTHER COMMENTS RECEIVED FROM RIPARIAN OWNERS/CITIZENS ON DRAFT PERMIT: Document any comments received from other sources and note how resolved.

The application and draft permit have received public notice in accordance with the VPDES Permit Regulation, and the following comment was received.

A letter was received from a neighboring citizen who was concerned about the discharge and how it could affect her home. DEQ sent a response to her. Both her comment and response are attached to this section.

Persons may comment in writing or by e-mail to the DEQ on the proposed issuance/reissuance/modification of the permit within 30 days from the date of the first notice. Address all comments to the contact person listed below. Written or e-mail comments shall include the name, address, and telephone number of the writer, and shall contain a complete, concise statement of the factual basis for comments. Only those comments received within this period will be considered. The Director of the DEQ may decide to hold a public hearing if public response is significant. Requests for public hearings shall state the reason why a hearing is requested, the nature of the issues proposed to be raised in the public hearing and a brief explanation of how the requestor's interests would be directly and adversely affected by the proposed permit action.

All pertinent information is on file and may be inspected, and arrangements made for copying by contacting Deanna Austin at: Department of Environmental Quality (DEQ), Tidewater Regional Office, 5636 Southern Boulevard, Virginia Beach, VA 23462. Telephone: 757-518-2008 E-mail:deanna.austin@deq.virginia.gov

Following the comment period, the Board will make a determination regarding the proposed issuance/reissuance/modification. This determination will become effective, unless the Director grants a public hearing. Due notice of any public hearing will be given.

30. ADDITIONAL FACT SHEET COMMENTS/PERTINENT INFORMATION:



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY TIDEWATER REGIONAL OFFICE

Doug Domenech Secretary of Natural Resources 5636 Southern Boulevard, Virginia Beach, Virginia 23462 (757) 518-2000 Fax (757) 518-2009 www.deq.virginia.gov

David K. Paylor Director

Maria R. Nold Regional Director

July 11, 2012

Eumeka Sanders P.O. Box 676 Newport News, VA 23607

RE: Comments on Proposed Renewal of Virginia Pollutant Discharge Elimination System (VPDES) Permit for HRSD Boat Harbor STP (Permit No. VA0081256)

Dear Ms. Sanders:

Thank you for your letter dated July 9, 2012 concerning the above referenced VPDES Permit. The VPDES Permit for the HRSD Boat Harbor STP has been drafted to protect both human health and the environment. The permit includes numerical limits for pH of between 6.0 - 9.0 s.u. per day, which matches the Virginia State Water Quality Standards. The permit also contains numerical limitations for total suspended solids, biochemical oxygen demand, total residual chlorine, bacteria in the form of both fecal coliform and enterococci and nutrients in the form of total phosphorus. Numerical limits on these pollutants prevent the Boat Harbor STP from discharging these pollutants in amounts that would impact human health or the environment, and requires the Boat Harbor STP to be in compliance with the Virginia Water Quality Standards. We feel the permit as drafted is protective of human health and the environment.

Thank you for your interest in the environmental quality of Virginia and your participation in the public comment process. If you have any questions, please feel free to contact me at 757-518-2105 or by email at mark.sauer@deq.virginia.gov.

Mark H. Sauer

Water Permit Manager

EUMEKA SANDERS

PO BOX 676 Newport News, VA 23607 (443) 205 6330 (443) 205 6330 Mekasanders i waoi.com



July 9, 2012

Newport News City 2400 Washington Avenue Newport News, Virginia 23607

Dear Friend,

Substandard Living Conditions

Permit #VA0081256

Here is said to be substantial where as the relevance requires immediate action.

As reported on the June, twenty fourth two-thousand twelve as recorded as the first day giving Public Notice:

In Violation of:

Virginia residents:

As it pertains to rights, ordinance, regulation, policy and decisions of the locality.

Pollutant Discharge Elimination System as facilitate what's said discharged into Newport News Boat Harbor STP/ James River/ Lower James River.

The following pollutants discharged sewage by way 25 millions gallons of pollutants per day. There is 0ph applied.

Biochemical waste should be discharged properly as it pertain to the health and safety of the environment and the people.

In which 0ph is suspended. Solid Chlorine, Entercocci, Fecal Coliform and phosphorus have said to have been incinerated into the waterways.

Furthermore, The Towers is said to be unsafe and unsanitary; in violation of Substandard Living Condition; Rights and Responsibility. Hence Landlord Tenant Act , i.e. Rats, rodents and roaches.

HRSD- Boat Harbor STP

300 Terminal Avenue Newport News, VA 23607

700 Waterfront Circle Newport News, VA 23607



Sincerely, "Encls" 7/4/12

ATTACHMENT 1 SITE INSPECTION REPORT/MEMORANDUM

Facility:	HRSD – BOAT HARBOR
County/city:	Newport News

VPDES NO. **VA0081256**

DEPARTMENT OF ENVIRONMENTAL QUALITY WASTEWATER FACILITY INSPECTION REPORT PART 1

Inspection date:	May 6, 2011 Da				Date form completed:				May 12, 2011			
Inspection by:	, n	lark R. K	idd	Inspe	ction	agency	/ :		DEQ/TRO			
Time spent:		? hours	;	Anno	uncec	d Inspe	ction:	[]	Yes [√] N	lo		
Reviewed by: Kenneth T. Ra	um جسم	4		F	²hoto	graphs	taken at si	te? [✓]	Yes []	No		
Present at inspection:	Ken Sa	ınds, Joh	n Baker, I	Paul Ha	l Hass, Jason Hobar							
FACILITY TYPE:				F	FACIL	.ITY CL	ASS:					
(✓) Municipal				(✓) M	1ajor						
() Industrial				(/linor						
() Federal				(Small						
() VPA/NDC				() h	ligh Pri	iority	() Low	Priority			
TYPE OF INSPECTION:				· ·								
Routine <	Re	inspection				Cor	npliance/as	sistance/co				
Date of previous inspection:		J	uly 2, 200	8	<u> </u>	gency:			DEQ/TRO			
Population Served:		. (Connection	s Serve	∍d				·			
Last Month Average: Influent March 2011	BOD ₅ (mg/l)	171	TSS (mg/t)	1.	145		Flow (MGD)	14.21				
	Other:											
Last Month Average: Effluent March 2011	BOD ₅ (mg/l)	4	TSS (mg/l)	6	.4		Flow (MGD)	14.21	NH ₃ (mg/l)			
	Other:	Total P (mg/l) – 0.8	38								
Last Quarter Average: Effluent 1 st Q 2011	BOD ₅ (mg/l)	5	TSS (mg/l)	;	8		Flow (MGD)	13.92	NH ₃ (mg/l)			
	Other:	Total P (mg/l) 0.7	74								
Data verified in preface:		Upd	ated?				NO C	HANGES?		✓		
Has there been any new constr	ere been any new construction?							✓				
If yes, were the plans and spec	f yes, were the plans and specifications approved?							✓				
DEQ approval date:												
COPIES TO: (✓) DEQ/TRO; (✓) DEQ/OWCP; (✓) OWNER; () OPERATOR; () EPA-Region III; () Other:												

	HRSD Boat Harbor VA0081256												
	PLANT OPERATION AND MAINTENANCE												
1.	Class/number of licensed operators:	ı	7	II	1	1	ILF	2	IV	1	Tra	inee	
2.	Hours per day plant manned?							24 I	nrs/da	ıy			
3.	Describe adequacy of staffing			GOO	D	✓	A	VERA	AGE		PC	OR	
4.	Does the plant have an established program for	r traini	ng per	sonnel						YES	~	NO	
5.	Describe the adequacy of training			GOO	D	✓	А	VERA	4GE		PC	OR	
6.	Are preventative maintenance tasks scheduled									YES	1	NO	
7.	Describe the adequacy of maintenance			GOO	D	✓	A	VERA	4GE		PC	OR	
	Does the plant experience any organic/hydraulic overloading?						YES		ОМ	*			
8.	If yes, identify cause/impact on plant												
9.	Any bypassing since last inspection?									YES		NO	>
10.	Is the standby electrical generator operational?						YE	S	✓	NO		NA	
	How often is the standby generator exercised?								Mon	ithly	, and the second	_	
11.	Power transfer switch?	Мо	nthly		AL/	ARM S	YSTE	EM?		N	/lonth	ly	
12.	When was the cross connection last tested on	the p	otable	supply	?								
13.	Is the STP alarm system operational?			-			YE	s	✓	NO		NA	
14.	Is sludge disposed in accordance with an appro	oved S	SMP				YE	S	✓	NO		NA	
	Is septage received by the facility?						NO						
4.5	Is septage loading controlled?						YE	S	✓	NO		NA	
15.	Are records maintained?						YE	S	✓	NO		NA	

OVERALL APPEARANCE OF FACILITY	GOOD	AVERAGE	>	POOR	

COMMENTS:	#11. The generator runs to provide power during centrifuge start up.	
	min administration in the control of	

	PLANT RECORDS										
	WHICH OF THE FOLLOWING RECORDS DOES THE PLANT MAINTAIN?										
	Operational logs for each process unit						✓	NO		NA	_
	Instrument maintenance and	calibratio	n	·		YES	✓	NO		NA	
	Mechanical equipment mainte	enance		•		YES	~	NO		NA	
1.	Industrial waste contribution (municipa	l facilities)			YES	<	NO		NA	
_		WH.	AT DOES THE (DPERATIONAL .	LOG C	ONTAII	V				
	Visual Observations	✓	Flow Mea	surement	✓		Labora	itory Res	sults		✓
2.	Process Adjustments	√	Control C	alculations	✓		(Other?			
СОММ	ENTS:						.= .=				
	WHAT DC	THE ME	ECHANICAL EQ	JIPMENT RECO	ORDS (CONTAI	N?			NA	
	MFG. Instructions	✓	✓ As Built Plans/specs ✓				Spare Parts Inventory				✓
3.	Lube Schedules	1	Ott	ner?	<u> </u>	Ed	quipmen	t/parts S	upplier	s	✓
СОММ	IENTS:										
	WHAT DO INDUSTE	RIAL WA	STE CONTRIBU	TION RECORD	S CON	TAIN? (MUNICI	PAL)		NA	
	Wast	e Charac	eteristics		/		lmpa	ct on Pla	ant		✓
4.	Location	and Discl	harge Types		✓			Other?			
СОММ	ENTS:										
	WHICH OF THE FOLLOW	NING RE	CORDS ARE A	T THE PLANT &	AVAIL	ABLE	TO PER	SONNEL	.?	NA	
	Equipment Maintenance	e Record	s		Industri	al Contr	ibutor R	ecords			
5.	Operational Log	✓	Sampling/testi	ng Records	✓] 1	nstrume	ntation R	ecords	S	✓
6.	Records not normally available to personnel at their location: Industrial waste records										
7.	Were the records reviewed du	uring the	inspection					YES	✓	NO	
8.	Are records adequate and the O&M manual current? YES ✓ NO										
9.	Are the records maintained fo	or the req	uired 3-year time	period				YES	✓	NO	
COMN	MENTS:										

		SA	MPLING									
1.	Are sampling locations capable of providing representative samples? YES ✓ NO											
2.	Do sample types correspond to VPDES	S permit require	ements?					YES	✓	N		
3.	Do sampling frequencies correspond to	VPDES permi	t requirem	ents?				YEŞ	/	NO		
4.	Does plant maintain required records of	f sampling?						YES	✓	N	5	
5.	Are composite samples collected in pro	pportion to flow	?			YES	✓	NO		N/	4	
6.	Are composite samples refrigerated du	ring collection?				YES	\	NO		N/	4	
7.	Does the plant run operational control t	tests?				YES	✓	NO		N/	4	
сомі	MENTS: #5. Samples are collected ea	ch hour by ha	ind and fl	ow pac	ed sar	nples	ompo	sited.				
	TESTING											
	Who performs the testing?	Plant	✓	Cen	tral Lab	, ✓	,	Commercial Lab				
1.	Name: HRSD Central Environmenta	ıl Lab										
	IF THE PLANT PERFOR	RMS ANY TES	TING, PLE	ASE C	OMPLE	ETE QL	IESTIC	ONS 2-4	=			
2.	Which total residual chlorine method is	used?				На	ach Po	ocket Co	lorim	eter		
3.	Does plant appear to have sufficient eq	uipment to perf	form requi	ed tests	s?				YES	~	NO	
4.	Does testing equipment appear to be co	lean and/or ope	erable?						YES	✓	NO	
СОМІ	MENTS:											
	FOR INDUSTRIAL F	ACILITIES WIT	ГН ТЕСН	IOLOG	Y BAS	ED LIM	ITS O	NLY				
1.	Is the production process as described in permit application? If no, describe changes 1. in comments section. YES NO NA V							/				
2.	Are products/production rates as described in the permit application? If no list 2. differences in comments section. YES NO NA						/					
3.	Has the Agency been notified of the ch agency notified:	anges and thei	r impact o	n plant e	effluent	? Date	YE	s	NO		NA	~
COM	MENTS:		-					-				

PROBLEMS IDENTIFIED	AT LAST INSPECTION:	CORRECTED	NOT CORRECTED
None.			

SUMMARY

 INSPECTION COMMENTS:
I arrived on site and met with Lead Operators John Baker and Paul Hass. We were joined by Chief Operator Ken Sands during the site survey. The facility is updating the aeration system for the activated sludge tanks and electrical panels throughout the facility.
COMPLIANCE RECOMMENDATIONS FOR ACTION
None at this time.

DEPARTMENT OF ENVIRONMENTAL QUALITY WASTEWATER FACILITY INSPECTION REPORT PART II

Unit Process Evaluation Summary Sheet*

UNIT PROCESS	APPLICABLE	COMMENTS
SEWAGE PUMPING	1	
FLOW MEASUREMENT	- ·	
SCREENING/COMMINUTION	1	
GRIT REMOVAL	1	
FLOW EQUALIZATION		
PONDS/LAGOONS		
OIL/WATER SEPARATOR		
PRIMARY SEDIMENTATION	/	
ACTIVATED SLUDGE AERATION		
TRICKLING FILTERS		
ROTATING BIOLOGICAL CONTACTORS		
SEPTIC TANK/SAND FILTER / IMHOFF TANK		<u>-</u> :
SECONDARY SEDIMENTATION	1	
RAPID MIX/FLOCCULATION		
TERTIARY SEDIMENTATION		
FILTRATION		
MICRO-SCREENING		
ACTIVATED CARBON ADSORPTION		
CHLORINATION	~	
DECHLORINATION	1	
OZONATION		
ULTRAVIOLET DISINFECTION		
POST AERATION		
LAND APPLICATION-EFFLUENT		
EFFLUENT/PLANT OUTFALL	1	
SLUDGE PUMPING	·	
FLOTATION THICKENING (DAF)	·	
GRAVITY THICKENING		
AEROBIC DIGESTION		
ANAEROBIC DIGESTION		
LIME STABILIZATION		
CENTRIFUGATION	1	
PRESSURE FILTRATION (SLUDGE)		
VACUUM FILTRATION		
DRYING BEDS		
THERMAL TREATMENT		
INCINERATION	/	
COMPOSTING		
LAND APPLICATION-SLUDGE		

STANDARD COMMENTS:

- 1. UNIT NEEDS ATTENTION
- 2. ABNORMAL INFLUENT/EFFLUENT
- 4. UNAPPROVED MODIFICATION OR TEMPORARY REPAIR
- 5. EVIDENCE OF PROCESS UPSET

VA0081256

HRSD Boat Harbor

3. EVIDENCE OF EQUIPMENT FAILURE

*REFER TO INDIVIDUAL UNIT PROCESS EVALUATION FORMS

	UN	NT PRO	CESS:	SEV	VAGE PUM	PING				_			
											YES	NO	NA
1.	Name of station		INFLUENT PUMPI	ING			-						
2.	Location (if not at STP)												
		FOLLO	OWING EQUIPM	ENT OP	ERABLE								
3.	All pumps (Three screw	pumps a	vailable, 1 in ope	eration 1	in standby	y 1 u	nde	r main	tenance.)		\		
4.	Ventilation										✓		n-1
5.	Control equipment										✓		
6.	Sump pump												√
7.	Seal water system												✓
		REL	IABILITY CONS	IDERAT	IONS:								
8.	Classification	1	✓ II		!!!								
9.	Alarm system operable:		<u> </u>								✓		
		ALA	RM CONDITION	S MONIT	ORED								
10.	High water level										✓		
11.	High liquid level in dry w	ell											✓
12.	Main electric power										✓		
13.	Auxiliary electric power	<u>.</u>									✓		
14.	Failure of pumps to star	t		<u> </u>							✓		
15.	Test function				** **						✓		
16.	Other:												/
17.	Backup for alarm syster	n operati	onal?	. _T 							✓		
18.	Alarm signal reported to	(identify):	Contro	ol Room	I							
	CONTINUOUS OPERAL	BILITY PI	ROVISIONS	Gen	erator	✓	 	Portab	le Pump				
19.	(1) Day Storage	<u> </u>	(2) Source	es of Ele	ctricity		✓		Other:		<u>.</u>		
20.	Does the station have a	bypass?	<u> </u>						••		✓		
21.	Evidence of bypass in u	se?										<u> </u>	
22.	Can the bypass be disir	fected?									✓		
23.	Can the bypass be mea	sured?			Т						✓		
24.	How often is the station	checked	1? 	1	<u> </u>	•	~ ev	ery 2	hours			J	
GENE	RAL CONDITION: Photo 2.		GOOD	/		FAIF	₹			Р	OOR		
	F11010 Z.												

Boat Harbor		VA0081256

COMMENTS:

VA0081256 **HRSD Boat Harbor**

4/18/2011

FAIR

POOR

EVIDENCE OF THE FOLLOWING PROBLEMS

x

GOOD

		UNIT	T PROCESS:		FLO	OW MEASU	REMENT						
	INFLUENT	✓ 	INTERMED	DIATE		EFFL	JENT				YES	NO	NA
1.	Type of measuring o	device			- 1	Pars	hall Flum	ne					
2.	2. Present reading? not obtained during site visit												
3.	3. Bypass channel									✓			
4.	Bypass channel me	tered?							 •				✓
	Return flow discharg	ged ups	stream of the m	eter?							*		
5.	Identify: Centrifuge, Incinerator Scrubber, Non-Potable water, floor drains												
6.	Device operating pro	perly?									/		
				<u> </u>		•							

							_			
	INFLUENT	INTERME	EDIATE		EFFLUENT	✓		YES	NO	NA
1.	Type of measuring device				Ultrasonic					
2.	Present reading?			no	ot obtained during	site vi	isit			
3.	Bypass channel						•		✓	
4.	Bypass channel metered?									✓
	Return flow discharged up	stream of the	meter?						1	
5.	Identify:									
6.	Device operating properly?	,						✓		
7.	Date of last calibration?				4/18/2011					
			EVIDENCE	OF THE	FOLLOWING PRO	BLEM	ns:			
	Obstruction?						"	/		
8.	Grease?							✓		
GENE	ERAL CONDITION:	GOO)D	✓	FAIR	_		POOR	···	•
СОМ	MENTS:						<u> </u>			

Date of last calibration?

Obstruction?

Grease?

GENERAL CONDITION:

COMMENTS:

7.

		UN	IIT PROCESS:	SCREEN	vings/Co	MMINUTION				
								YES	NO	NA
1.	Number o	f manual units			1			·		
2.	Number c	f mechanical un	nits		2					
3.	Number n	nanual units in c	pperation		0					
4.	Number c	f mechanical ur	nits in operation		2					
	Bypass cl	nannel provided						1		
5.	Bypass c	hannel in use							✓	
6.	Area adeo	quately ventilated	d					1		
7.	Alarm sys	tem for equipme	ent failure and/or over	loads				1		
8.	Proper flo	w distribution be	etween units					1		
9.	How ofter	n are units check	ked and cleaned		Varies	s with workload, at le shift.	east twice per			
10.	Cycle of o	peration				1 min. on / 5min.	off			
11.	Volume o	f screenings ren	noved			March 2011 Ave.;	23 ft ³			
GENE	RAL CON	DITION:	GOOD	✓	· · · · · · · · · · · · · · · · · · ·	FAIR	Р	OOR		
СОМІ	MENTS:	Screening a	re compacted and	sent to dum	pster. P	hoto 1.				

		UNIT PROC	ESS:	GRIT REMOV	'AL					
							Γ,	YES	NO	NA
1.	Numb	er of units		2	·		-		_	
2.	Numb	er units in operation		1						
	Opera	tion of grit collection equipme	nt:							
3.		Manual	Time Clock	✓	Cor	ntinuous Duty				
4.	Area a	dequately ventilated						✓		
5.	Prope	r flow distribution between un	its							1
6.	Daily	volume of grit removed			March 201	1 Ave.; 13 ft ³				
7.	All eq	uipment operable						/		
GEN	ERAL C	ONDITION:	GOOD	F	AIR	/	POC)R		

COMMENTS:

Photo 3.

UNIT PROCESS:	SEDIMENTATION

	PRIMARY	✓	SECONDARY	TER	IARY			YES	NO	NA
1.	Number of units				6		•			
2.	Number units in ope	ration	_		4					
3.	Proper flow distribut	ion between	units					 ✓		
4.	Sludge collection sys	stem working	properly?					/		
5.	Signs of short circuit	ting and/or ov	verloads					-		1
6.	Effluent weirs level									1
7.	Effluent weirs clean									1
8.	Scum collection syst	em working	properly					✓		
9.	Influent/effluent baff	le system wo	rking properly							✓
10.	Chemical Used		Ferr	ous Chloride		Chemical Addition		✓		
11.	Effluent characterist	ics								✓
GENE	RAL CONDITION:		GOOD	1	FAII	R	PC	OOR		

COMMENTS: Units are covered and not observable,

SEDIMENTATION

UNIT PROCESS:

GOOD

	PRIMARY		SECONDARY	1	TERTIARY			YES	NO	NA
1.	Number of units				6					
2.	Number units in ope	ration			5					
3.	Proper flow distribut	ion between	units					1		
4.	Sludge collection sy	stem working	g properly?					1		
5.	Signs of short circuit	ting and/or o	verloads						1	
6.	Effluent weirs level							1		
7.	Effluent weirs clean							4		
8.	Scum collection sys	tem working	properly				·	1		
9.	Influent/effluent baff	le system wo	orking properly					4		
10.	Chemical Used					Chemic	al Addition		1	
11.	Effluent characterist	ics								

COMMENTS: Photos 6&7.

FAIR

POOR

GENERAL CONDITION:

											YES	NO	NA
1.	Number	of aeratio	n units					6					
2.	Number	units in o	peratio	n				5					
3.	Mode of	operation	:		Ami		r with m mixing	echanical					
4.	Proper fl	ow distrib	ution b	etween units			•				✓		
5.	Foam co	ntrol ope	rationa								✓		
6.	Scum co	ntrol pres	sent				··· -				~		
7.	Dead sp	ots				Cc	vered; n	ot observable					√
8.	Excessiv	e foam				Со	vered; n	ot observable.					√
9.	Poor aer	ation				Co	vered; no	ot observable.					1
10.	Excessive scum Covered; not observable.												✓
11.	Aeration equipment malfunction Covered; not observable.												✓
12.	Other problem(s):										1		
13.	Effluent of	control de	vices v	vorking properly	(OXIDAT	ION DITC	HES)					✓	
14.		МІ	XED L	IQUOR CHARA	CTERIS	TICS A	S AVAILA	ABLE: March 2	011				
	pH (s.u.)			MLSS (mg/l)	226	1	DO (mg/l)		SVI	259			
	Odor			Settleabil	ity (ml/l)	,	922	(5 min.)	SDI				
	Color	Not ob	served										
15.	RETURN/WASTE SLUDGE RATES:												
	Return Rate 9.54 Waste Rate .267 Waste Frequency Continuous												
16.				AERAT	ION SY	STEM C	CONTROL	_:					
	Time	Clock		Manual Fee	d		Contin	uous Feed		✓			
	Other:												
GENE	ERAL CON	IDITION:		GOOD		/		FAIR		Р	POOR		

COMMENTS:	Most of this process unit is covered for odor control and cannot be observed.	

	UNIT PROCESS:	C	CHLORINA	TION		-				
	<u> </u>					_				
								YES	NO	NA
1.	Number of chlorinators		7							
2.	Number chlorinators in operation	2								
3.	Number of evaporators?		na							
4.	Number of evaporators in operation		na							!
5.	Number chlorine contact tanks	<u> </u>	2	<u>-</u>						
6.	Number chlorine contact tanks in operation			1						
7.	Proper flow distribution between units?		> TUE 14	40TE 07	054140					
	HOW IS CHLORINE INTRODUCE			ASIE SI		<u></u>	1			
8.	Perforated Diffuser Injector w/si	ingle en	try point		Tablet					
9. 10.	Chlorine residual in contact basin effluent (mg/l)				hecked o			-		
11.	Applied chlorine dosage (lbs/day) Contact basin adequately baffled?			Warci	h 2011 av	verag	e -400	✓		
12.	Adequate ventilation in chlorine cylinder storage at	roa?								
14.	Adequate vertilation in chlorine equipment room?	ica:					<u> </u>	-		
15.	Proper safety precautions used?							-		
10.	1 Toper salety precautions used:				ı			l		
GENE	ERAL CONDITION: GOOD	✓		FAIR			Р	OOR		
									<u> </u>	
COM	MENTS:									
	UNIT PROCESS:	Di	ECHLORIN	ATION						
	<u> </u>					_				
								YES	NO	NA
	Dechlorination chemical used?				·			•		
1.	Sulfur Dioxide Bisulfite ✓		Other:							
2.	Number of sulfonators		3							
3.	Number sulfonators in operation		1							
4.	Number of evaporators?		na							
5.	Number of evaporators in operation		na							
6.	Number contact tanks		na							
7.	Number contact tanks in operation			na					,	
8.	Proper flow distribution between units?									
	HOW IS CHEMICAL INTRODUC							4		
9.	Perforated Diffuser Injector w/s	single ei	ntry point		Tablet			_		
10.	Chlorine residual in basin effluent				checked			1		
	Applied dechlorination dosage				mg/L, 2					
11.				Av	erage Ma	arch	2011	 		
12.	Control system operational?	T	Manua	-1	Othor			 		
13.	Control system adjusted? Automatic Residual analyzer?	<u> </u>	Manua	ai	Other:		I	/		-
14.	· · · · · · · · · · · · · · · · · · ·			<u> </u>						
15. Contact basin adequately baffled?								ļ .	-	1
17.	16. Adequate ventilation in cylinder storage area?							/		
18.	Adequate ventilation in equipment room? Proper safety precautions used?							<u> </u>		
10.	1 Topol salety precautions used:	1				[1	' 	
GENE	ERAL CONDITION: GOOD	✓		FAIR			P	OOR		
						1		·····		
COM	MENTS: Dechlorination applied just after dischar	rge from	the chic	rine conta	act tank a	nd jus	st prior to	discharg	e.	

UNIT PROCESS:	EFFLUENT/PLANT OUTFALL

	-								YES	NO	NA
1.	Type of outfall			Shore Based Submerged							
_			TYPI	E IF SHO	DRE BASED:						
2.	Wingwall		Headwall		Rip Rap		Pipe	✓ .			
3.	Flapper valve pre			✓							
4.	Erosion of bank				✓						
5.	Effluent plume vi			/							
	Condition of outf										
6.	GOOD	_									
		FINAL	EFFLUENT, EVI	DENCE	OF FOLLOWING	G PROBI	LEMS?				
	Oil sheen?									✓	
	Grease?									1	
	Sludge bar?			<u> </u>						✓	
	Turbid effluent?		✓								
	Visible foam?										
7.	Unusual color?									1	

GENERAL CONDITION:	GOOD	*	FAIR	POOR	

COMMENTS: Final effluent observed in the chlorine contact tank. Photo 8.

		
UNIT PROCESS:	CENTRIFUGATION	

				_ - .							YES	NO	NA
1.	Number o	of units					4						
2.	Number units in operation						1-4						
				PURP	OSE OF	F CENTR	RIFUGE						
3.	Thick	kening				✓ Other:							
				OPER,	ATION (OF EQUI	PMENT						
4.	Manu	ıal	✓	Automa	atic		Oth	ner:			1		
5.	Centrifuge	e run tim	e		14	l.6 hrs/da	ay – Marc	h 2011		<u>'</u>	-		
6.	Volume of influent sludge flow: (gal/min)						48						
7.	Amount of cake produced: (lbs/day)						25,500						
8.					SLUDG	E SOLID:	s						1
ο.	Influent	(%)			Eff	Effluent (%)							
9.	Condition	ing chen	nical fed:			De	Delta 601						
10.	Condition	ing chen	nical dos	e:		192	192 lbs/ton						
11.	Centrate i	return lo	cation:										
12.	2. Signs of centrate return problems?												
GENE	GENERAL CONDITION: GOOD					✓ FAIR				Р	OOR		
COM	MENTS:	Photo	5.										

UNIT PROCESS:	Incineration

									YES	NO	NA
1.	Method:	urnace		✓	Fluidized Bed Ir	ncinerator	:				
2.	Number of units			_	2						
3.	Number units in operation					1					
4.				Тур	es of s	ludg	e incinerated:	-			
	Primary	Primary V. Waste			d	✓	Other:				
5.	Loading rate (we					? lb/hr/ft²					
6.	Range of operati	ııe		? .							
7.	Fuel used	Nat.	Gas	Amount Avg. = 97			Avg. = 97,0	00 cu.ft./day			
8.	Amount of ash g	enerated		309 cu.yd Disposal of ash March 2011			Disposal of ash				
9.	Average number	of hours of c	peration pe	r week				19			
						·					
GEN	ERAL CONDITION)	✓		FAIR		POOR				
СОМ	MENTS:										

YES

NO

NA

UNIT PROCESS: FLOTATION THICKENING (DAF)

1.	Number of units				2						
2.	Number units in	operation			2	2					
	SLUDGE PUMPING?										
3.	Manual	Manual ✓ Automatic Other:									
			FLOATATION AID S	SYSTEM	I PROVIL	DED?					
4.	Type of aid		Polymer 601		Dosage	Lbs/ton	March 2	2011 -183			
5.	Skimmer blade s	ludge ren	noval system properly o	perating)?				\		
6.	Sludge collection	n system v	working properly?						✓		
	Is the unit used to thicken sludge other than waste activated sludge?									/	!
7.	Other sludge type										/
8.	Signs of overloading?									/	<u> </u>
			PROCESS CO	NTROL	TESTING	3					
	Feed solids testi	ng					%				/
	Thickened sludg	e solids te	esting			1	5 %				
	Underflow testing	9				n	ng/L				/
9.	Other:								i .		
10.	Percent capture of solids 123 %										
11.	Effluent baffle system working properly?										
GENE	GENERAL CONDITION: GOOD FAIR ✓ PO								OOR		

COMMENTS:

Photo 4.

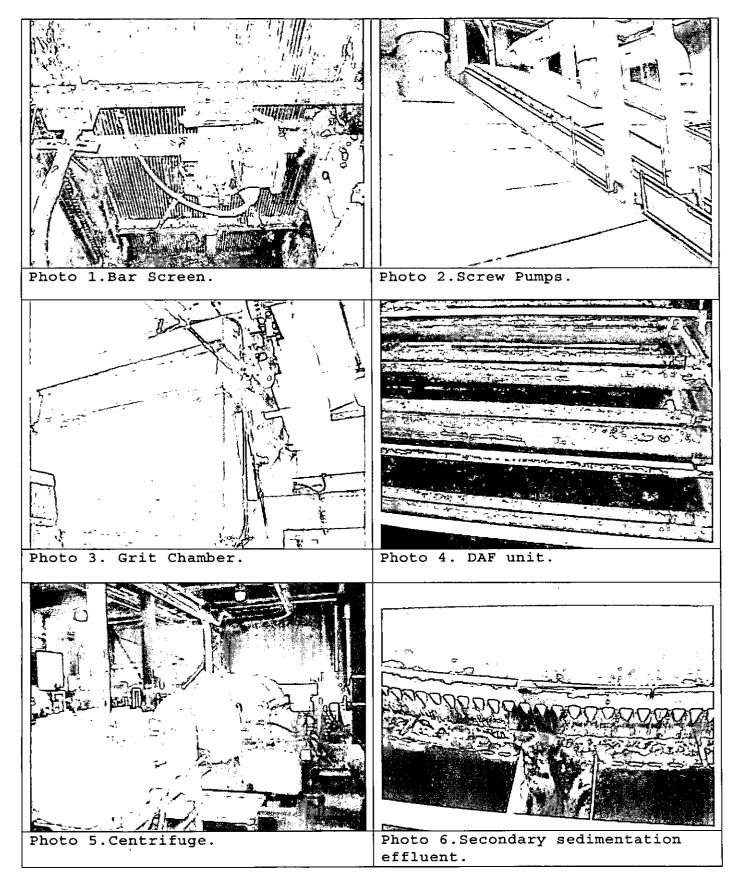




Photo 7. Updates to secondary sedimentation tanks.



Photo 8.Discharge from chlorination/de-chlorination tank.

ATTACHMENT 2 DISCHARGE LOCATION/TOPOGRAPHIC MAP



Location Map for Boat Harbor TP

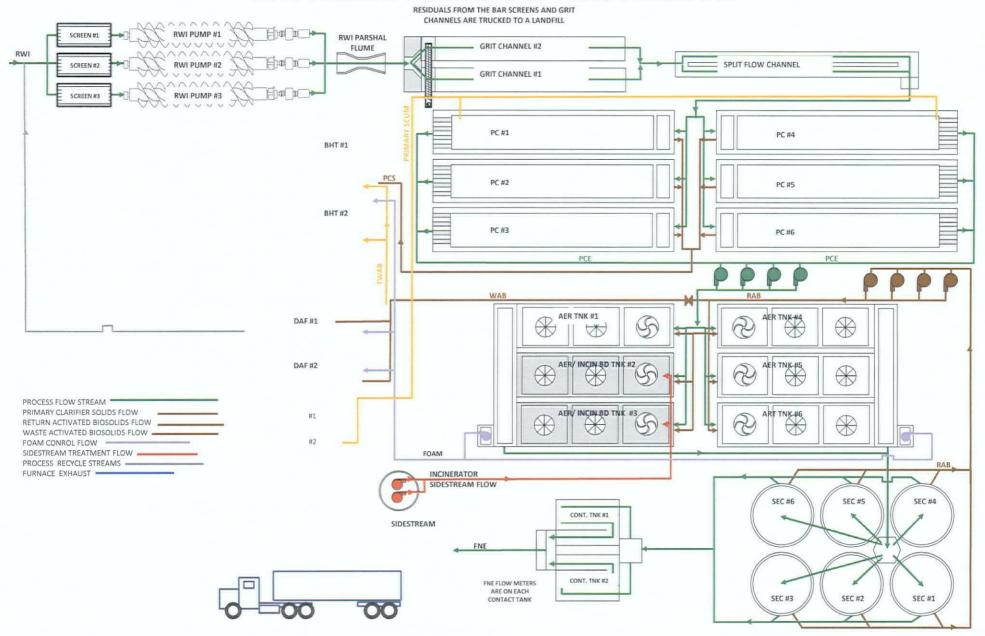
Scale: 1"-2000'

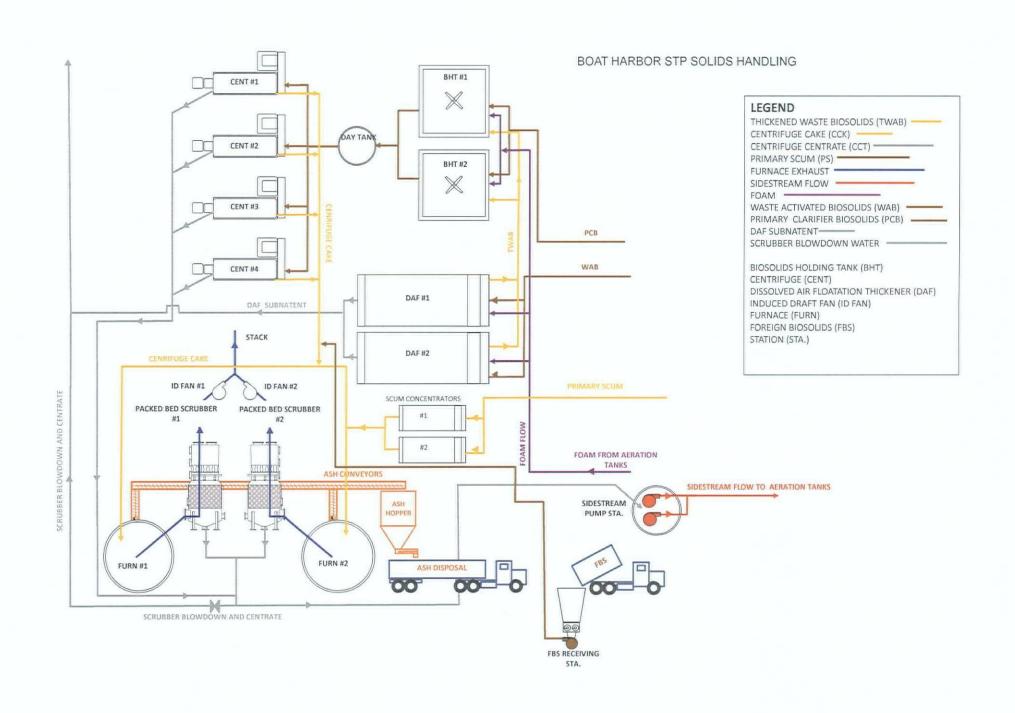
USGS Map Reference

ATTACHMENT 3

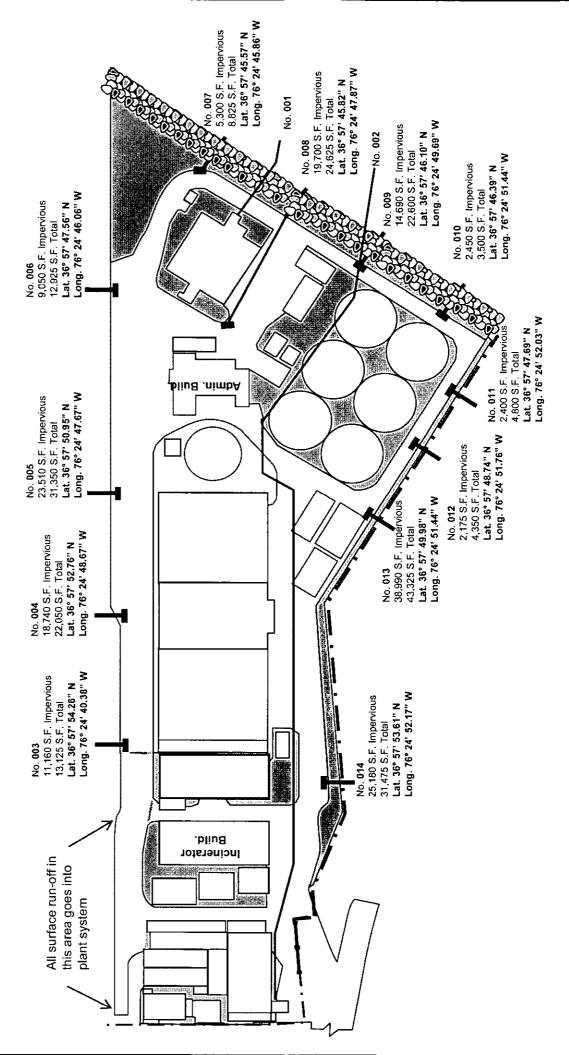
SCHEMATIC/PLANS & SPECS/SITE MAP/ WATER BALANCE

BOAT HARBOR TREATMENT ST FLOW SCHEMATIC





BOAT HARBOR TREATMENT PLANT STORM WATER LOCATION MAP



ATTACHMENT 4

TABLE I - DISCHARGE/OUTFALL DESCRIPTION

TABLE I NUMBER AND DESCRIPTION OF OUTFALLS

OUTFALL NO.	DISCHARGE LOCATION	DISCHARGE SOURCE	TREATMENT (2)	FLOW (3)
001	36°57′25″N 076°24′43″W	POTW, primary treated wastewater effluent discharge	Secondary treatment provided by screening, grit removal, primary and secondary clarification, activated sludge, chlorination, and dechlorination.	25 MGD design flow
003	36°57′54″N 076°24′40″W	Storm Water	No treatment provided, best management practices used.	0.0009 MG
004	36°57′53″N 076°24′49″W	Storm Water	No treatment provided, best management practices used.	0.002 MG
005	36°57′51″N 076°24′48″W	Storm Water	No treatment provided, best management practices used.	0.002 MG
006	36°57′48″N 076°24′46″W	Storm Water	No treatment provided, best management practices used.	0.0008 MG
007	36°57′46″N 076°24′46″W	Storm Water	No treatment provided, best management practices used.	0.0005 MG
008	36°57′46″N 076°24′48″W	Storm Water	No treatment provided, best management practices used.	0.002 MG
009	36°57′46″N 076°24′50″W	Storm Water	No treatment provided, best management practices used.	0.001 MG
010	36°57′46″N 076°24′51″W	Storm Water	No treatment provided, best management practices used.	0.0002 MG
011	36°57′48″N 076°24′52″W	Storm Water	No treatment provided, best management practices used.	0.0003 MG
012	36°57′49″N 076°24′52″W	Storm Water	No treatment provided, best management practices used.	0.0002 MG
013	36°57′50″N 076°24′51″W	Storm Water	No treatment provided, best management practices used.	0.003 MG
014	36°57′54″N 076°24′52″W	Storm Water	No treatment provided best management practices used.	0.002 MG

⁽¹⁾ List operations contributing to flow

SEE ATTACHED SHEET

⁽²⁾ Give brief description, unit by unit

⁽³⁾ Give maximum 30-day average flow for industry and design flow for municipal

Boat Harbor STP VA0081256 Storm Water Application Attachment

IV. Narrative Description of Pollutant Sources

A. For each outfall, provide an estimate of the area (include units) of impervious surfaces (including paved areas and building roofs) drained to the outfall, and an estimate of the total surface area drained by the outfall.

Outfall Number	Area of Impervious Surface (ft ²)	Total Area Drained (ft²)	
003	11160	13125	100
004	18740	22050	· 00
005	23510	31350	.00
006	9050	12925	.00
007	5300	8825	,00
008	19700	24625	100
009	14,690	22600	. 00
010	2450	3500	100
011	2400	4800	. 00
012	2175	4350	.00
013	38990	43325	.00
014	25180	31475	.00

6.0149

ATTACHMENT 5

TABLE II - EFFLUENT MONITORING/LIMITATIONS

TABLE II - INDUSTRIAL EFFLUENT LIMITATIONS/MONITORING

OUTFALL # 001 DESIGN FLOW: 25 MGD

Outfall Description: Municipal Discharge

SIC CODE: 4952

(X) Final Limits () Interim Limits Effective Dates - From: Reissuance To: Expiration

		DESIGN FLOW MULTIPLIER		EFFLUENT L	MONITORING REQUIREMENTS			
PARAMETER & UNITS	BASIS FOR LIMITS		MONTHLY AVERAGE	WEEKLY AVERAGE	MINIMUM	MUMIXAM	FREQUENCY	SAMPLE TYPE
Flow (MGD)[a]	3		NL	NA	NA	NL	Continuous	TI & RE**
pH (S.U.)	1		NA	NA	6.0	9.0	1/Day	Grab
BOD5 (mg/l)[c][d]	1		30	45	NA	NA	3/Week	24-Hr. Comp
BOD5 (kg/d)[d]	1	25	2839	4258	AA	NA	3/Week	24-Hr. Comp
TSS (mg/l)[c][d]	ı		30	45	AN	NA	3/Week	24-Hr. Comp
TSS (kg/d)[d]	1	25	2839	4258	NA	NA	3/Week	24-Hr. Comp
TRC (mg/l)[b][c]	2		0.20	. 1.3	NA	NA	1/Day	Grab
Total Phosphorus (mg/l)	3		NL	NA	AN	NA	1/Month	24-Hr. Comp
Total Phosphorus (mg/l) Year to date [f]	3		NL	NA	NA	NA	1/Month	Calc
Total Phosphorus (mg/l) Calendar Year [e][f]	3		2.0	NA	AN	NA	1/Year	Calc
Fecal Coliform (n/cml)[d] [g]	2		200	NA	АИ	NA	1/Week (Between 10 am & 4 pm)	Grab
Enterococci (n/cml) [d] [h]	2		35	NA	АИ	NA	2/Month (Between 10 am & 4 pm)	Grab

^{**}Totalizing, Indicating & Recording Equipment

NA = NOT APPLICABLE; NL = NO LIMIT, MONITORING REQUIREMENT ONLY

1 Year= January 1-December 31; reported for each full calendar year

Upon issuance of the permit, Discharge Monitoring Reports (DMRs) shall be submitted to the regional office at the frequency required by the permit regardless of whether an actual discharge occurs. In the event that there is no discharge for the monitoring period, then "no discharge" shall be reported on the DMR.

In addition to any Total Nitrogen or Total Phosphorus concentration limits listed above, this facility has Total Nitrogen and Total Phosphorus calendar year load limits associated with this outfall included in the current Registration List under registration number VAN040090, enforceable under the General VPDES Watershed Permit Regulation for Total Nitrogen and Total Phosphorus Discharges and Nutrient Trading in the Chesapeake Watershed in Virginia.

- [a] The design flow of this treatment facility is 25 MGD. See Part I.C.5 for additional flow requirements.
- [b] See Part I.B. for additional chlorine monitoring instructions.
- [c] See Parts I.C.6 and I.C.7 for quantification levels and reporting requirements, respectively.
- [d] See Part I.C.8 for additional instructions regarding effluent monitoring frequencies.
- [e] Annual average limitation, based on a calculation of all samples collected during the calendar year.
- [f] See Part I.C.11.for additional instructions regarding Total Phosphorus
- [q] Fecal Coliform monthly average is calculated as a geometric mean.
- [h] Enterococci monthly average is calculated as a geometric mean. Samples must be taken at least 7 days apart.
 - 2. There shall be no discharge of floating solids or visible foam in other than trace amounts.
 - 3. At least 85% removal for BOD and TSS must be attained for this effluent.

The basis for the limitations codes are:

- 1. Technology (e.g., Federal Effluent Guidelines)
- 2. Water Quality Standards (9 VAC 25-260 et. seq.)
- 3. Best Professional Judgment

TABLE II - STORM WATER EFFLUENT LIMITATIONS/MONITORING

OUTFALLS # 003-014

Outfall Description: Stormwater Not Associated With Regulated Industrial Activity

SIC CODE: 4952

THESE OUTFALLS SHALL CONTAIN STORM WATER RUNOFF NOT ASSOCIATED WITH A REGULATED INDUSTRIAL ACTIVITY WHERE NO MONITORING IS REQUIRED. THERE SHALL BE NO DISCHARGE OF PROCESS WASTEWATER FROM THESE OUTFALLS.

No exposure status has been given to these outfalls.

TABLE II - MUNICIPAL MINOR EFFLUENT LIMITATIONS Attachment 5 continued

Final Chlorine Limitations Effective Dates - From: Permit Issuance

To: Permit Expiration

TRC **	AFTER CL2 CONTACT TANK (Dechlor. Required)			l	TER RINATION	AFTER CL2 CONTACT TANK (Dechlor. Not Required)					
	MIN.	EXC.	INST. MIN.	WKLY AVG.	INST. MAX.	PERMIT RANGE	EXC.	REPORT- ING RANGE	EXC.	TECH. MAX.	
a) Non- Detect. Dechlor. Required						NA	NA	NA	NA	NA	
b) Detect. Dechlor. Required	0.80 mg/l	36	0.80 mg/l*	1.3 mg/l	, 	NA	NA	NA	NA	NA	
c) No Dechlor.	NA	NA	NA	NA	NA						

^{*} Reporting is required when 3 or more consecutive readings are <0.80 mg/l or when the TRC is <0.1 mg/l.

** --Chlorine mass balance Cw (W for Tidal systems): check one

a) C_w < 0.1 mg/l [dechlor. required, non-detectable format]

X b) 0.1 mg/l \leq C_w \leq 2.0 mg/l (2.5 mg/l for PWS, Shellfish waters) [dechlor, required, detectable format] c) C_w \geq 2.0 mg/l (2.5 mg/l for PWS, Shellfish waters) [dechlor, not required, include a restrictive technology

max. value]

The design flow of this treatment facility is 25 MGD.

NA = NOT APPLICABLE; NL = NO LIMIT, MONITORING REQUIREMENT ONLY

See Part I.B. for additional TRC limitations.

ATTACHMENT 6

EFFLUENT LIMITATIONS/MONITORING RATIONALE/SUITABLE DATA/
ANTIDEGRADATION/ANTIBACKSLIDING

HRSD Boat Harbor STP Rationale For Parameters, Limitations, And Sampling Requirements Outfall 001

Flow:

No limit, monitoring is required with continuous, totalizing, indicating or recording equipment. This based on the VPDES Permit Manual, and is standard for sanitary wastewater plants with discharges greater than 2 MGD. The design flow of 25 MGD is the baseline for the 95% design flow capacity notification.

pH:

Minimum limit of 6.0 and maximum of 9.0 S.U. These limits are based on Federal Effluent Guidelines (40 CFR 133.102) and Water Quality Standards in 9 VAC 25-260-50, which limits pH to the range above for coastal waters of the State. Monitoring is a daily grab sample and is standard for sanitary WW plants with discharges greater than 2 MGD.

Biochemical Oxygen Demand:

Monthly average of 30 mg/l and 2839 kg/day and a weekly average of 45 mg/l and 4258 kg/day. This is based on Federal Effluent Guidelines (40 CFR 133.102) which sets the limits for secondary WW plants. Loading limits are in whole numbers based upon the latest DEQ significant figures guidance (06-2016). Monitoring required is a 24 hour composite, 3 days a week. The frequency is based upon previous permit reissuances where DEQ guidance document 98-2005 was used to decrease the monitoring frequency to 3 days/week. This will be carried forward for this reissuance.

Total Suspended Solids:

Monthly average of 30 mg/l and 2839 kg/day and a weekly average of 45 mg/l and 4258 kg/day. This is based on Federal Effluent Guidelines (40 CFR 133.102) which sets the limits for secondary WW plants. Loading limits are in whole numbers based upon the latest DEQ significant figures guidance (06-2016). Monitoring required is a 24 hour composite, 3 days a week. The frequency is based upon previous permit reissuances where DEQ guidance document 98-2005 was used to decrease the monitoring frequency to 3 days/week. This will be carried forward for this reissuance.

Total Residual Contact Chlorine:

Minimum limit after contact time is 0.80 mg/l with 36 exceptions. This value was determined from the HRSD Chlorine Reduction Test which was approved by DEQ in February 1997. In addition, it follows the requirements of the VPDES permit manual. These process monitoring limits are believed necessary to ensure proper disinfection. Monitoring required is a grab sample once every two hours. This is based on the VPDES Permit Manual and is standard for municipal discharges of > 2.0 MGD to nutrient enriched waters

A special condition requires reporting if the chlorine concentration falls below 0.80 mg/l or chlorination is lost(<0.10 mg/l).

Final Total Residual Chlorine:

A weekly average of 1.3 mg/l. A monthly average of 0.20 mg/l. This is a technology based limit following guidance document 00-2011 and is carried forward from the current permit. Monitoring is required once/day by grab sample. The frequency is based on the VPDES permit manual and is standard for municipal discharges of >2.0 MGD.

Fecal Coliform:

Monthly average of 200 n/cml. This is based on Water Quality Standards (9 VAC 25-260-160) and is believed protective of instream standards. Monitoring required is a grab sample once a week. The VPDES Manual allows reduction to this frequency based on long term average discharge values in relation to the monthly average limit. Current guidance requires fecal coliform monitoring in salt or transition waters if the discharge is to shellfish waters. BPJ determines that this frequency is adequate to determine compliance with the standard.

Enterococci:

A monthly average limit of 35 n/cml is included per water quality standards. Sampling is required 2/Month to be calculated as a geometric mean. Samples must be taken at least 7 days apart. This is carried forward from the current permit. Enterococci was added at the time of the last permit reissuance due to Enterococci monitoring becoming an issue that EPA addressed in late 2007/early 2008.

Total Phosphorus Calendar Year

An annual average concentration limit of 2.0 mg/l is placed in the permit with monitoring on an annual basis. Additional nutrient monitoring and reporting is covered under the General VPDES Watershed Permit for Total Nitrogen and Total Phosphorus. The Boat Harbor HRSD facility is covered under VAN040090. On 5/16/07 guidance document 07-2008 was released by DEQ Central Office for the implementation of the nutrient general permit in relation to the individual permit. The 2.0 mg/l limit is carried forward to the reissued permit.

Total Phosphorus Year-to-Date

There is no limit for the monthly average TP Year-to-date parameter. This parameter was added to the permit in accordance with guidance document 07-2008. Reporting is 1/M and is a calculation. Data for this parameter is collected in accordance with the VPDES permit VAN040090 for the James River Watershed held by HRSD.

Total Phosphorus

There is no limit for the monthly average phosphorus parameter. This parameter was added to the permit in accordance with guidance document 07-2008. Reporting is 1/M. Data for this parameter is collected in accordance with the VPDES permit VAN040090 for the James River Watershed. Reporting for this parameter is required in the individual permit (IP) because the annual concentration limits is contained in the IP. All data used to calculate and determine compliance with the limit in the IP needs to be in the same document and reported on the same form as the limit.

Water Quality Standards Reasonable Potential

Nickel and Ammonia had a quantifiable concentration for the data gathered for the 2012 application. However, these data points were significantly below the most limiting wasteload allocations found in the attached wasteload allocation analysis. No limits were needed for these parameters.

All other water quality parameters reported on Form 2A were below the quantification levels. No additional limits are needed at this time.

Mixing Zone Analysis

A dilution study was submitted for this facility in 1998. The dilution study was approved by central office at the time of submittal. The acute dilution ratio is 61:1 and the chronic ratio is 267:1.

Stormwater

Outfalls 003-014 are discharges of stormwater from the plant (industrial) area. HRSD submitted stormwater sample data from one outfall located at the Boat Harbor HRSD plant (outfall 007). It is HRSD's position that this data represents all the stormwater outfall discharges for this plant site.

HRSD has met the requirements for industrial "no exposure", thereby only discharging stormwater not associated with an industrial activity. The Stormwater Management Condition has been removed from the permit. The "no exposure" certification form is

Outfall 002

attached to the section.

Outfall 002 is described in the permit application as an outfall that received no treatment and is therefore considered a bypass. As such, it will not be included in the permit under part I Limitations or Special Conditions. Discharges from Outfall 002 must meet requirements in the Part U and other appropriate parts of the Standard Conditions found in Part II of the permit. Outfall 002 was damaged during construction at the plant and is schedule to be no longer available for use by the end of 2012.

VIRGINIA DEQ NO EXPOSURE CERTIFICATION FOR EXCLUSION FROM VPDES STORM WATER PERMITTING

Submission of this **No Exposure Certification** constitutes notice that the entity identified below does not require permit authorization for its storm water discharges associated with industrial activity under the VPDES Permit Program due to the existence of a condition of **No Exposure**.

A condition of **No Exposure** exists at an industrial facility when all industrial materials and activities are protected by a storm resistant shelter to prevent exposure to rain, snow, snowmelt, and/or runoff. Industrial materials or activities include, but are not limited to, material handling equipment or activities, industrial machinery, raw materials, intermediate products, by-products, final products, or waste products. Material handling activities include the storage, loading and unloading, transportation, or conveyance of any raw material, intermediate product, final product or waste product. A storm resistant shelter is not required for the following industrial materials and activities:

- drums, barrels, tanks, and similar containers that are tightly sealed, provided those containers are not deteriorated and do not leak. "Sealed" means banded or otherwise secured and without operational taps or valves;
- adequately maintained vehicles used in material handling; and
- final products, other than products that would be mobilized in storm water discharges (e.g., rock salt).

A No Exposure Certification must be provided for each facility qualifying for the No Exposure exclusion. In addition, the exclusion from VPDES permitting is available on a facility-wide basis only, not for individual outfalls. If any industrial activities or materials are or will be exposed to precipitation, the facility is not eligible for the No Exposure exclusion.

By signing and submitting this No Exposure Certification form, the entity below is certifying that a condition of No Exposure exists at its facility or site, and is obligated to comply with the terms and conditions at 9 VAC 25-31-120 E (the VPDES Permit Regulation).

	Please Type or Print All Information. ALL INFORMATION ON THIS FORM MUST BE PROVIDED.
1.	Facility Operator Information
	Name: Hampton Roads Sanitation District
	Mailing Address: 1436 Air Rail Avenue
	City: Virginia Beach State: VA Zip: 23455 Phone: 757-460-2261
2.	Facility/Site Location Information Facility Name: Boat Harbor
	Address: 300 Terminal Avenue MAY 0 3 2012
	City: Newport News State: VA Zip: 23607 Tidewater Regional Office
	County Name:
	Latitude: 36 57' 45" Longitude: 76 24' 45"
3.	Was the facility or site previously covered under a VPDES storm water permit? Yes 🗸 No 🗌
	If "Yes", enter the VPDES permit number: VA0081256
4.	SIC/Activity Codes: Primary: 4952 Secondary (if applicable):
5.	Total size of facility/site associated with industrial activity: 5.34 acres
6.	Have you paved or roofed over a formerly exposed pervious area in order to qualify for the No Exposure exclusion? Yes ☐ No ✓
	If "Yes", please indicate approximately how much area was paved or roofed. Completing this question does not disqualify you for the No Exposure exclusion. However, DEQ may use this information in considering whether storm water discharges from your site are likely to have an adverse impact on water quality, in which case you could be required to obtain permit coverage.
	Less than one acre One to five acres More than five acres

7.	Exp	osure Che	ecklist		
	che	ck either "\	e following materials or activities exposed to precipitation, now or in the foreseeable Yes" or "No" in the appropriate box.) If you answer "Yes" to any of these quest not eligible for the No Exposure exclusion.		
				Yes	No
	(1)		ring or cleaning industrial machinery or equipment, and areas where residuals g, storing or cleaning industrial machinery or equipment remain and are exposed vater	Ш	√
	(2)	Materials of	or residuals on the ground or in storm water inlets from spill/leaks		\checkmark
	(3)	Materials o	or products from past industrial activity		\checkmark
	(4)	Material ha	andling equipment (except adequately maintained vehicles)		$\overline{\checkmark}$
	(5)	Materials of	or products during loading/unloading or transporting activities		7
	(6)		or products stored outdoors (except final products intended for outside use [e.g., where exposure to storm water does not result in the discharge of pollutants)		
	(7)	Materials of similar cor	contained in open, deteriorated or leaking storage drums, barrels, tanks, and ntainers		\checkmark
	(8)	Materials of discharger	or products handled/stored on roads or railways owned or maintained by the		✓
	(9)	Waste ma	terial (except waste in covered, non-leaking containers [e.g., dumpsters])		\checkmark
	(10)	Application	n or disposal of process wastewater (unless otherwise permitted)		\checkmark
((11)		e matter or visible deposits of residuals from roof stacks and/or vents not otherwise (i.e., under an air quality control permit) and evident in the storm water outflow		\checkmark
8.	Cei	tification S	Statement `		
exp wat	osu er c	re and obta ontaminate	nalty of law that I have read and understand the eligibility requirements for claiming an exclusion from VPDES storm water permitting; and that there are no dised by exposure to industrial activities or materials from the industrial facility identified I under 9 VAC 25-31-120 E 2).	charges	of storm
Env app per req	riron dical form uest	mental Quole). Lunde inspection . Lunderst	I am obligated to submit a No Exposure Certification form once every five years to to tallity and, if requested, to the operator of the local MS4 into which this facility destand that I must allow the Department, or MS4 operator where the discharge is into us to confirm the condition of no exposure and to make such inspection reports publicated that I must obtain coverage under a VPDES permit prior to any point source dowith industrial activity from the facility.	ischarge the loca cly availa	s (where I MS4, to ible upon
sub in g	orda mitte athe plei	ance with a ed. Based ering the ir te. I am av	alty of law that this document and all attachments were prepared under my direction system designed to assure that qualified personnel properly gathered and evaluate upon my inquiry of the person or persons who manage the system, or those person of persons, the information submitted is to the best of my knowledge and belief to ware that there are significant penalties for submitting false information, including the for knowing violations.	ed the inf s directly rue, accu	formation involved irate and
	Prir	nt Name:	Edward G. Henifin, P.E.		
	Prir	nt Title:	General Manager		_
	Sig	nature:	MINN		_
	Dat	e:	5/2/2012		

For Department of Environmental Quality Use Only

Accepted/Not Accepted by:

Date :_

Permit No	Parameter Description	QTYAVG	QTYMAX	CONCMIN	CONCAVG	CONCMAX	Start Date	End Date
<u> </u>	FLOW	12.74	14.59				1-Feb-08	29-Feb-08
VA0081256	PH			6.6		7.2	1-Feb-08	29-Feb-08
VA0081256	BOD5	413	571	 	9	12	1-Feb-08	29-Feb-08
VA0081256	TSS	452	489		9.4	10	1-Feb-08	29-Feb-08
	COLIFORM, FECAL	<u> </u>		+	55		1-Feb-08	29-Feb-08
	TP	<u> </u>			0.64		1-Feb-08	29-Feb-08
	CL2, TOTAL CONTACT			0.11			1-Feb-08	29-Feb-08
I	CL2, TOTAL FINAL		-	0.11	0.0041	0.017	1-Feb-08	29-Feb-08
:	TP YTD				0.60		1-Feb-08	29-Feb-08
1	FLOW	12.68	17.82		1	<u> </u>	1-Mar-08	31-Mar-08
	PH	12.00	117.02	6.7	<u> </u>	7.2	1-Mar-08	31-Mar-08
	BOD5	436	790	0.7	9	18	1-Mar-08	31-Mar-08
· · · · · · · · · · · · · · · · · · ·	TSS	326	370	-	6.8	7.5	1-Mar-08	31-Mar-08
	COLIFORM, FECAL	320	1370	<u> </u>	4	7.5 	1-Mar-08	31-Mar-08
<u> </u>	TP	 	 		0.77	<u> </u>		31-Mar-08
	CL2, TOTAL CONTACT	<u> </u>	<u> </u>	0.02	10.77	1	1-Mar-08 1-Mar-08	31-Mar-08
	CL2, TOTAL CONTACT			0.02	0.0048	<ql< td=""><td></td><td>31-Mar-08</td></ql<>		31-Mar-08
			ļ			~QL	1-Mar-08	
1	TP YTD	45.54	00.00	-	0.7		1-Mar-08	31-Mar-08
	FLOW	15.51	26.90			7.4	1-Apr-08	30-Apr-08
	PH	700	054	6.6	40	7.1	1-Apr-08	30-Apr-08
	BOD5	730	951		12	17	1-Apr-08	30-Apr-08
	TSS	412	598		6.7	7.8	1-Apr-08	30-Apr-08
	COLIFORM, FECAL			<u> </u>	40		1-Apr-08	30-Apr-08
	TP			<u> </u>	0.81		1-Apr-08	30-Apr-08
	CL2, TOTAL CONTACT			0.81			1-Apr-08	30-Apr-08
	CL2, TOTAL FINAL				<ql< td=""><td><ql< td=""><td>1-Apr-08</td><td>30-Apr-08</td></ql<></td></ql<>	<ql< td=""><td>1-Apr-08</td><td>30-Apr-08</td></ql<>	1-Apr-08	30-Apr-08
-	TP YTD				0.69		1-Apr-08	30-Apr-08
	FLOW	12.73	16.70			ļ	1-May-08	31-May-08
ļ—————————————————————————————————————	PH		<u> </u>	6.8	<u></u>	7.3	1-May-08	31-May-08
	BOD5	701	1485		14	29	1-May-08	31-May-08
	TSS	351	515		7.2	10	1-May-08	31-May-08
	COLIFORM, FECAL				14		1-May-08	
	TP				0.89		1-May-08	31-May-08
	CL2, TOTAL CONTACT			0.68			1-May-08	
VA0081256	CL2, TOTAL FINAL				0.024	0.066	1-May-08	31-May-08
VA0081256	TP YTD				0.73		1-May-08	31-May-08
VA0081256	FLOW	11.43	12.67	İ			1-Jun-08	30-Jun-08
VA0081256	PH			7.0		7.6	1-Jun-08	30-Jun-08
VA0081256	BOD5	270	474	1	6	11	1-Jun-08	30-Jun-08
VA0081256	TSS	158	211	İ	3.6	4.9	1-Jun-08	30-Jun-08
VA0081256	COLIFORM, FECAL		ĺ	 	12		1-Jun-08	30-Jun-08
VA0081256	TP		ĺ	İ	0.84		1-Jun-08	30-Jun-08
VA0081256	CL2, TOTAL CONTACT		İ	0.80			1-Jun-08	30-Jun-08
	CL2, TOTAL FINAL		İ		0.0070	0.016	1-Jun-08	30-Jun-08
	TP YTD		İ		0.75		1-Jun-08	30-Jun-08
	FLOW	10.28	12.09				1-Jul-08	31-Jul-08
	PH			6.9	 	7.5	1-Jul-08	
	BOD5	326	350	1	8	9	1-Jul-08	
	TSS	178	193	-	4.5	4.9	1-Jul-08	31-Jul-08
	COLIFORM, FECAL		1.55	<u> </u>	8		1-Jul-08	
	TP		 	 	1.1	·	1-Jul-08	
	ENTEROCOCCI		·	 	1	-	1-Jul-08	
	CL2, TOTAL CONTACT		ļ	0.79			1-Jul-08	
	CL2, TOTAL FINAL			10.70	0.024	0.031	1-Jul-08	
	TP YTD	 		-	0.80	0.001	1-Jul-08	
	FLOW	10.55	14.53	-	0.00	-	1-Jui-08 1-Aug-08	
	PH	10.55	14.00	7.0		7.5		31-Aug-08
		257	254	1.0	6	9		31-Aug-08
	BOD5	257	354	1	6			
	TSS	207	427	1	5.0	9.6		31-Aug-08
	COLIFORM, FECAL	<u> </u>		1	20			31-Aug-08
	TO			1	1.0	1	1 T-Aug-08	31-Aug-08
<u> </u>	TP SNTEROODER			-	<u> </u>	 		24 4
VA0081256	ENTEROCOCCI		ļ. 		1		1-Aug-08	31-Aug-08
VA0081256 VA0081256				0.76	<u> </u>	0.071	1-Aug-08 1-Aug-08	31-Aug-08 31-Aug-08 31-Aug-08

VA0081256	TP YTD				0.83		1-Aug-08	31-Aug-08
VA0081256	FLOW	11.47	20.41		0.03	-	1-Aug-08	30-Sep-08
l		- 11.47	20.41					
VA0081256	PH			6.9		7.6	1-Sep-08	30-Sep-08
I———	BOD5	226	408		5	7	1-Sep-08	30-Sep-08
VA0081256	TSS	359	991		6.9	17	1-Sep-08	30-Sep-08
VA0081256	COLIFORM, FECAL				14		1-Sep-08	30-Sep-08
VA0081256	TP				1.3		1-Sep-08	30-Sep-08
VA0081256	ENTEROCOCCI	 	+		1		1-Sep-08	30-Sep-08
		- 		-	<u>'</u>	<u> </u>	·	
VA0081256	CL2, TOTAL CONTACT	<u> </u>	<u> </u>	0.14			1-Sep-08	30-Sep-08
VA0081256	CL2, TOTAL FINAL	<u> </u>			0.0090	<ql< td=""><td>1-Sep-08</td><td>30-Sep-08</td></ql<>	1-Sep-08	30-Sep-08
VA0081256	TP YTD				0.88		1-Sep-08	30-Sep-08
VA0081256	FLOW	11.07	015.43				1-Oct-08	31-Oct-08
VA0081256	PH			7.0		7.4	1-Oct-08	31-Oct-08
	BOD5	153	133	17.0		3		31-Oct-08
i					4		1-Oct-08	
VA0081256	TSS	211	216		5.0	5.2	1-Oct-08	31-Oct-08
VA0081256	COLIFORM, FECAL		_ [10		1-Oct-08	31-Oct-08
VA0081256	TP				1.0		1-Oct-08	31-Oct-08
VA0081256	ENTEROCOCCI	i i	<u> </u>		4	i	1-Oct-08	31-Oct-08
VA0081256	CL2, TOTAL CONTACT		 	0.61	<u> </u>		1-Oct-08	31-Oct-08
		 _		10.01	0.007		1	
VA0081256	CL2, TOTAL FINAL	-	ļ		0.027	0.10	1-Oct-08	31-Oct-08
VA0081256	TP YTD				0.90		1-Oct-08	31-Oct-08
VA0081256	FLOW	12.44	16.93		1	1	1-Nov-08	30-Nov-08
VA0081256	PH	İ		7.1		7.4	1-Nov-08	30-Nov-08
<u> </u>	BOD5	185	253	-	4	5	1-Nov-08	30-Nov-08
	TSS		483	i	6.2	9.9	1-Nov-08	
	·i	298	403			8.8		30-Nov-08
VA0081256	COLIFORM, FECAL			ļ	21		1-Nov-08	30-Nov-08
VA0081256	TP	1		1	0.73	<u> </u>	1-Nov-08	30-Nov-08
VA0081256	ENTEROCOCCI				4		1-Nov-08	30-Nov-08
1	CL2, TOTAL CONTACT			0.90		_	1-Nov-08	30-Nov-08
VA0081256	CL2, TOTAL FINAL		<u> </u>	0.00	0.014	0.056	1-Nov-08	30-Nov-08
I———		-					.1	
VA0081256	TP YTD				0.88		1-Nov-08	30-Nov-08
VA0081256	FLOW	14.79	26.00				1-Dec-08	31-Dec-08
VA0081256	PH			6.6		7.8	1-Dec-08	31-Dec-08
VA0081256	BOD5	333	501		6	8	1-Dec-08	31-Dec-08
VA0081256	TSS	516	683	_	9.3	12	1-Dec-08	31-Dec-08
VA0081256	COLIFORM, FECAL	10.10	000		14	- 12		
1	· · · · · · · · · · · · · · · · · · ·	_				_	1-Dec-08	31-Dec-08
VA0081256	TP		<u> </u>		0.79		1-Dec-08	31-Dec-08
VA0081256	ENTEROCOCCI		Ì		2	İ	1-Dec-08	31-Dec-08
VA0081256	CL2, TOTAL CONTACT			0.070			1-Dec-08	31-Dec-08
VA0081256	CL2, TOTAL FINAL	İ	i		0.0087	0.023	1-Dec-08	31-Dec-08
VA0081256	TP YTD	<u> </u>	<u> </u>	-	0.87	0.020	1-Dec-08	
		<u> </u>	<u> </u>					
VA0081256	TP Annual Avg	<u>.i</u>			0.87		1-Dec-08	31-Dec-08
VA0081256	FLOW	13.43	15.56				1-Jan-09	31 - Jan-09
VA0081256	PH			6.8		7.3	1-Jan-09	31-Jan-09
VA0081256	BOD5	217	256	i i	4	5	1-Jan-09	31-Jan-09
VA0081256	TSS	316	521	-	6.2	10	1-Jan-09	31-Jan-09
·		1010	1021	+	7			
VA0081256	COLIFORM, FECAL	-	-	+			1-Jan-09	31-Jan-09
VA0081256	TP	!	ļ	<u> </u>	0.83		1-Jan-09	31-Jan-09
VA0081256_	ENTEROCOCCI				2		1-Jan-09	31-Jan-09
VA0081256	CL2, TOTAL CONTACT			0.87			1-Jan-09	31-Jan-09
VA0081256	CL2, TOTAL FINAL	i	i	1	<ql< td=""><td><ql< td=""><td>1-Jan-09</td><td>31-Jan-09</td></ql<></td></ql<>	<ql< td=""><td>1-Jan-09</td><td>31-Jan-09</td></ql<>	1-Jan-09	31-Jan-09
VA0081256	TP YTD	-	-		0.83	1 54 2	1-Jan-09	31-Jan-09
		144.00	40.00	-	10.03		-1	
VA0081256	FLOW	11.89	13.93	1			1-Feb-09	28-Feb-09
VA0081256	PH			6.7		7.4	1-Feb-09	28-Feb-09
VA0081256	BOD5	206	225		5	5	1-Feb-09	28-Feb-09
VA0081256	TSS	240	293	- 	5.4	6.2	1-Feb-09	28-Feb-09
VA0081256	COLIFORM, FECAL	12.5			4	1	1-Feb-09	28-Feb-09
	·	-	-	+				
VA0081256	TP			<u> </u>	0.66		1-Feb-09	28-Feb-09
	ENTEROCOCCI	<u> </u>			1		1-Feb-09	28-Feb-09
VA0081256	CLO TOTAL CONTACT			.99			1-Feb-09	28-Feb-09
VA0081256	CL2, TOTAL CONTACT		i	i	<ql< td=""><td><ql< td=""><td>1-Feb-09</td><td></td></ql<></td></ql<>	<ql< td=""><td>1-Feb-09</td><td></td></ql<>	1-Feb-09	
VA0081256	·		Į.				1-1 00-00	
VA0081256 VA0081256	CL2, TOTAL FINAL			_				
VA0081256 VA0081256 VA0081256	CL2, TOTAL FINAL TP YTD	40.74	07.00		0.74		1-Feb-09	28-Feb-09
VA0081256 VA0081256 VA0081256 VA0081256	CL2, TOTAL FINAL TP YTD FLOW	18.71	27.62				1-Feb-09 1-Mar-09	28-Feb-09 31-Mar-09
VA0081256 VA0081256 VA0081256 VA0081256 VA0081256	CL2, TOTAL FINAL TP YTD	18.71	27.62	6.8		7.2	1-Feb-09	28-Feb-09 31-Mar-09 31-Mar-09

VA0081256	TSS	681	929		9.6	12	1-Mar-09	31-Mar-09
VA0081256	COLIFORM, FECAL				6	_	1-Mar-09	31-Mar-09
VA0081256	TP				0.58		1-Mar-09	31-Mar-09
VA0081256	ENTEROCOCCI				<u> </u>		1-Mar-09	31-Mar-09
VA0081256	CL2, TOTAL CONTACT	· -		0.66			1-Mar-09	31-Mar-09
VA0081256	CL2, TOTAL FINAL				<ql< td=""><td><ql< td=""><td>1-Mar-09</td><td>31-Mar-09</td></ql<></td></ql<>	<ql< td=""><td>1-Mar-09</td><td>31-Mar-09</td></ql<>	1-Mar-09	31-Mar-09
VA0081256	TP YTD	·			0.69	-	1-Mar-09	31-Mar-09
VA0081256	FLOW	14.39	18.85				1-Apr-09	30-Apr-09
VA0081256	PH			6.7		7.8	1-Apr-09	30-Apr-09
VA0081256	BOD5	241	288		4	5	1-Apr-09	30-Apr-09
VA0081256	TSS	273	303		5.0	5.0	1-Apr-09	30-Apr-09
VA0081256	COLIFORM, FECAL				2		1-Apr-09	30-Apr-09
VA0081256	TP				1.2	Ì	1-Apr-09	30-Apr-09
VA0081256	ENTEROCOCCI				1		1-Apr-09	30-Apr-09
VA0081256	CL2, TOTAL CONTACT			0.95		j	1-Apr-09	30-Apr-09
VA0081256	CL2, TOTAL FINAL				<ql< td=""><td><ql< td=""><td>1-Apr-09</td><td>30-Apr-09</td></ql<></td></ql<>	<ql< td=""><td>1-Apr-09</td><td>30-Apr-09</td></ql<>	1-Apr-09	30-Apr-09
VA0081256	TP YTD				0.81		1-Apr-09	30-Apr-09
VA0081256	FLOW	13.15	18.41				1-May-09	31-May-09
VA0081256	PH			6.7		7.2	1-May-09	31-May-09
VA0081256	BOD5	224	246		4	5	1-May-09	31-May-09
	TSS	226	274	1	4.4	4.7		31-May-09
	COLIFORM, FECAL				50			31-May-09
VA0081256	TP	İ	i	<u> </u>	0.94		1-May-09	31-May-09
	ENTEROCOCCI		ĺ	ĺ	1			31-May-09
VA0081256	CL2, TOTAL CONTACT	İ	.	0.85	ĺ	i		31-May-09
VA0081256	CL2, TOTAL FINAL			i	<ql< td=""><td><ql< td=""><td></td><td>31-May-09</td></ql<></td></ql<>	<ql< td=""><td></td><td>31-May-09</td></ql<>		31-May-09
VA0081256	TP YTD			1	0.84	i		31-May-09
VA0081256	FLOW	13.82	22.42				1-Jun-09	
VA0081256	PH			6.5		7.3	1-Jun-09	30-Jun-09
VA0081256	BOD5	227	259		5	5	1-Jun-09	
VA0081256	TSS	287	352		5.7	7.0	1-Jun-09	30-Jun-09
VA0081256	COLIFORM, FECAL	1.01			40		1-Jun-09	30-Jun-09
VA0081256	TP			-	1.4		1-Jun-09	30-Jun-09
VA0081256	ENTEROCOCCI		-		2		1-Jun-09	30-Jun-09
VA0081256	CL2, TOTAL CONTACT			0.83			1-Jun-09	30-Jun-09
VA0081256	CL2, TOTAL FINAL			10.00	0.0067	0.014	1-Jun-09	30-Jun-09
VA0081256	TP YTD				0.93	_	1-Jun-09	
VA0081256	FLOW	10.63	12.82		0.00	-	1-Jul-09	
VA0081256	PH	10.00	12.02	6.8		7.4	1-Jul-09	31-Jul-09
VA0081256	BOD5	184	232			6	1-Jul-09	31-Jul-09
VA0081256	TSS	203	281		4.9	6.7	1-Jul-09	
VA0081256	COLIFORM, FECAL	200	201	_	9		1-Jul-09	
VA0081256	TP	<u> </u>			1.2	<u>i</u>	1-Jul-09	
VA0081256	ENTEROCOCCI			_	1		1-Jul-09	
VA0081256	CL2, TOTAL CONTACT	<u> </u>	 	0.82			1-Jul-09	
VA0081256	CL2, TOTAL CONTACT	1		7.02	0.0035	0.016	1-Jul-09	
VA0081256	TP YTD				0.0033		1-Jul-09	
VA0081256	FLOW	13.05	18.24		0.00	<u> </u>	1-Aug-09	
VA0081256	PH	10.00	10.27	6.9		7.4	1-Aug-09	
VA0081256	BOD5	320	587	- 3.3	6	111	1-Aug-09	
VA0081256	TSS	218	295		4.3	5.3	1-Aug-09	
VA0081256	COLIFORM, FECAL	210	430		5	- 0.0	1-Aug-09	
VA0081256	TP	-			1.1	<u> </u>	1-Aug-09	
VA0081256	ENTEROCOCCI	-	-		1		1-Aug-09	
VA0081256	CL2, TOTAL CONTACT	 		0.89	1		1-Aug-09	
VA0081256	CL2, TOTAL CONTACT	1		0.08	0.0032	0.014	1-Aug-09	
VA0081256	TP YTD	-			0.98	0.014	1-Aug-09	
VA0081256	FLOW	14.29	26.43		0.50		1-Aug-09	
VA0081256 VA0081256	PH	14.29	20.43	6.9		7.4	1-Sep-09	
VA0081256 VA0081256		266	674	8.0	- 6	<u> 7.4</u> 9	1-Sep-09 1-Sep-09	
VA0081256 VA0081256	BOD5 ITSS	366	674	_ 	5.4	6.1	1-Sep-09	
VA0081256 VA0081256	· ····	304	468		14	- 0.1	1-Sep-09	
VA0081256 VA0081256	COLIFORM, FECAL	1	<u> </u>		0.93		1-Sep-09	
VA0081256 VA0081256	TP ENTEROCOCCI	<u> </u>	<u> </u>	_	6		1-Sep-09 1-Sep-09	
VAUUO 1200	JENTEROCOCCI		!		ļυ			·
VA0081256	CL2, TOTAL CONTACT	1	ľ	0.84	ľ	1	1-Sep-09	30-Sep-09

VAD081256 TP YTD	VA0081256	CL2, TOTAL FINAL	· · · · · ·	1	1	<ql< th=""><th><ql< th=""><th>1-Sep-09</th><th>30-Sep-09</th></ql<></th></ql<>	<ql< th=""><th>1-Sep-09</th><th>30-Sep-09</th></ql<>	1-Sep-09	30-Sep-09
NABORITSES FLOW					_				
VAMOR1256 PH		_1	11 08	15.80	_	0.97			
NAD091256 BODD		- <u> </u>	11.50	13.80			7.4		
VA0091256 TSS 339 527 7.6 11	1		320	117	-\frac{7.0}{-}	7		_	
VA0091256 COLIFORM, FECAL		- 				l			
VA0081256 TP			339	1527					
VA0081256 ENTEROCOCCI			<u> </u>		_	:			
VAD081256 CL2, TOTAL CONTACT 0,040 1.0c;09 3:1-0c;09 3		1		 	_		- [_i	
VA0081256 CL2 TOTAL FINAL			<u> </u>			1			
VA0081256 TP YTD		- I	<u> </u>		0.040		_		
VA0081256 FLOW							<ql< td=""><td></td><td></td></ql<>		
VA0081256 PH						1.0			
VA0081256 BOD5 419 829 5 8 1.Nov.09 30.Nov.09 VA0081256 TSS 774 1951 7.6 15 1.Nov.09 30.Nov.09 VA0081256 COLIFORM, FECAL 7 1.Nov.09 30.Nov.09 VA0081256 TP 0.62 1.Nov.09 30.Nov.09 VA0081256 ENTEROCOCCI 1 1.Nov.09 30.Nov.09 VA0081256 ENTEROCOCCI 1 1.Nov.09 30.Nov.09 VA0081256 CL2, TOTAL CONTACT 0.26 1.Nov.09 30.Nov.09 VA0081256 CL2, TOTAL FINAL 0.023 0.078 1.Nov.09 30.Nov.09 VA0081256 FL2, TOTAL FINAL 0.023 0.078 1.Nov.09 30.Nov.09 VA0081256 FL2, TOTAL FINAL 0.023 0.078 1.Nov.09 30.Nov.09 VA0081256 FLOW 24.43 41.42 1.Doc.09 31.Doc.09 VA0081256 FLOW 24.43 41.42 1.Doc.09 31.Doc.09 VA0081256 FLOW 24.43 41.42 1.Doc.09 31.Doc.09 VA0081256 FLOW 24.43 41.42 1.Doc.09 31.Doc.09 VA0081256 FLOW 24.43 41.42 1.Doc.09 31.Doc.09 VA0081256 FLOW 24.43 41.42 1.Doc.09 31.Doc.09 VA0081256 FLOW 24.43 41.42 1.Doc.09 31.Doc.09 VA0081256 FLOW 24.43 41.42 1.Doc.09 31.Doc.09 VA0081256 FLOW 24.43 41.42 1.Doc.09 31.Doc.09 VA0081256 FLOW 24.43 41.42 1.Doc.09 31.Doc.09 VA0081256 FLOW 24.43 41.42 1.Doc.09 31.Doc.09 VA0081256 FLOW 24.43 41.42 1.Doc.09 31.Doc.09 VA0081256 FLOW 41.43 41.44			21.40	44.44					
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VA0081256 COLIFORM, FECAL 7			419	829		5	8	1-Nov-09	30-Nov-09
VA0081256 TP	VA0081256	TSS	7.74	1951		7.6	15	1-Nov-09	30-Nov-09
VA0081256 ENTEROCOCCI	VA0081256	COLIFORM, FECAL				7		1-Nov-09	30-Nov-09
VA0081256 C12, TOTAL CONTACT 0.26	VA0081256	TP	Ī			0.62		1-Nov-09	30-Nov-09
VA0081256 CLZ, TOTAL CONTACT 0.26	VA0081256	ENTEROCOCCI	j			1		1-Nov-09	30-Nov-09
VA0081256 C12, TOTAL FINAL 0.023 0.078 1-Nov-09 30-Nov-09 VA0081256 FP YTD 0.98 1-Nov-09 30-Nov-09 VA0081256 FP YTD 0.98 1-Nov-09 30-Nov-09 VA0081256 FP YTD 0.98 1-Nov-09 31-Dec-09 VA0081256 FP YTD 0.50 9 12 1-Dec-09 31-Dec-09 VA0081256 FP YTD 0.52 1-Dec-09 31-Dec-09 VA0081256 C0LIFORM, FECAL 4 1-Dec-09 31-Dec-09 VA0081256 C12, TOTAL CONTACT 0.40 1-Dec-09 31-Dec-09 VA0081256 C12, TOTAL FINAL 0.0035 0.016 1-Dec-09 31-Dec-09 VA0081256 C12, TOTAL FINAL 0.0035 0.016 1-Dec-09 31-Dec-09 VA0081256 FP YTD 0.94 1-Jan-10 31-Jan-10 VA0081256 FP Annual Avg 0.94 1-Jan-10 31-Jan-10 VA0081256 FP Annual Avg 0.94 1-Jan-10 31-Jan-10 VA0081256 FP Annual Avg 0.94 1-Jan-10 31-Jan-10 VA0081256 FP Annual Avg 0.94 1-Jan-10 31-Jan-10 VA0081256 FP Annual Avg 0.94 1-Jan-10 31-Jan-10 VA0081256 FP Annual Avg 0.94 1-Jan-10 31-Jan-10 VA0081256 FP Annual Avg 0.94 1-Jan-10 31-Jan-10 VA0081256 FP Annual Avg 0.94 1-Jan-10 31-Jan-10 VA0081256 FP Annual Avg 0.94 1-Jan-10 31-Jan-10 VA0081256 FP Annual Avg 0.94 1-Jan-10 31-Jan-10 31-Jan-10 VA0081256 FP Annual Avg 0.94 1-Jan-10 31-Jan-10 31-Jan-10 VA0081256 FP Annual Avg 0.94 1-Jan-10 31-Jan-10 31-Jan-10 VA0081256 FP Annual Avg VA0081256 FP Annual			i	-	0.26				
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VA0081256 TSS 1527 2936			907	1250	0.1	9			
VA0081256 COLIFORM, FECAL			<u>'</u>					-	
VA0081256 TP			1027	2936		i			
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VA0081256 CL2, TOTAL FINAL 0.0035 0.016 1-Dec-09 31-Dec-09 VA0081256 TP YTD 0.94 1-Dec-09 31-Dec-09 VA0081256 TP Annual Avg 0.94 1-Jan-09 31-Dec-09 VA0081256 TP Annual Avg 0.94 1-Jan-09 31-Dec-09 VA0081256 TP Annual Avg 0.94 1-Jan-00 31-Dec-09 VA0081256 TE COMMENT VA0081256 TE COMMENT VA0081256 TE COMMENT VA0081256 TE COMMENT VA0081256 TS VA0081256 TS VA0081256 TS VA0081256 TS VA0081256 TS VA0081256 TS VA0081256 TS VA0081256 TE COMMENT VA00		· · · · · · · · · · · · · · · · · · ·	<u> </u>			1			
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VA0081256 TP	VA0081256	TSS	980	1197		14	17	1-Jan-10	31-Jan-10
VA0081256 ENTEROCOCCI	VA0081256	COLIFORM, FECAL				10		1-Jan-10	31-Jan-10
VA0081256 CL2, TOTAL CONTACT 0.78	VA0081256	TP				0.60		1-Jan-10	31-Jan-10
VA0081256 CL2, TOTAL CONTACT 0.78 1-Jan-10 31-Jan-10 32-Jan-10 32-Jan-10 32-Jan-10 32-Jan-10 32-Jan-10 32-Jan-10 32-Jan-10	VA0081256	ENTEROCOCCI				4		1-Jan-10	31-Jan-10
VA0081256 CL2, TOTAL FINAL <ql< th=""> QL 1-Jan-10 31-Jan-10 VA0081256 TP YTD 0.60 1-Jan-10 31-Jan-10 VA0081256 FLOW 23.71 43.89 1-Feb-10 28-Feb-10 VA0081256 PH 6.6 7.1 1-Feb-10 28-Feb-10 VA0081256 BOD5 534 649 6 7 1-Feb-10 28-Feb-10 VA0081256 TSS 715 1036 7.9 9.2 1-Feb-10 28-Feb-10 VA0081256 TSS 175 1036 7.9 9.2 1-Feb-10 28-Feb-10 VA0081256 TSS 175 1036 7.9 9.2 1-Feb-10 28-Feb-10 VA0081256 TP 0.38 1-Feb-10 28-Feb-10 28-Feb-10 VA0081256 ENTEROCOCI 2 1-Feb-10 28-Feb-10 VA0081256 TP YTD 0.81 1-Feb-10 28-Feb-10 VA0081256 TP YTD 0.49 1-Feb-10 28</ql<>	VA0081256	CL2. TOTAL CONTACT	<u> </u>		0.78		-		
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VA0081256 COLIFORM, FECAL 5 1-Mar-10 31-Mar-10 VA0081256 TP 0.70 1-Mar-10 31-Mar-10 VA0081256 ENTEROCOCCI 3 1-Mar-10 31-Mar-10 VA0081256 CL2, TOTAL CONTACT 0.64 1-Mar-10 31-Mar-10 VA0081256 CL2, TOTAL FINAL <ql< td=""> <ql< td=""> 1-Mar-10 31-Mar-10 VA0081256 TP YTD 0.57 1-Mar-10 30-Apr-10 VA0081256 FLOW 16.40 23.75 1-Apr-10 30-Apr-10</ql<></ql<>		 .							31-Mar-10
VA0081256 TP 0.70 1-Mar-10 31-Mar-10 VA0081256 ENTEROCOCCI 3 1-Mar-10 31-Mar-10 VA0081256 CL2, TOTAL CONTACT 0.64 1-Mar-10 31-Mar-10 VA0081256 CL2, TOTAL FINAL <ql< td=""> <ql< td=""> 1-Mar-10 31-Mar-10 VA0081256 TP YTD 0.57 1-Mar-10 31-Mar-10 VA0081256 FLOW 16.40 23.75 1-Apr-10 30-Apr-10</ql<></ql<>		·i	1217	2194			31		31-Mar-10
VA0081256 ENTEROCOCCI 3 1-Mar-10 31-Mar-10 VA0081256 CL2, TOTAL CONTACT 0.64 1-Mar-10 31-Mar-10 VA0081256 CL2, TOTAL FINAL <ql< td=""> <ql< td=""> 1-Mar-10 31-Mar-10 VA0081256 TP YTD 0.57 1-Mar-10 31-Mar-10 VA0081256 FLOW 16.40 23.75 1-Apr-10 30-Apr-10</ql<></ql<>		COLIFORM, FECAL							31-Mar-10
VA0081256 CL2, TOTAL CONTACT 0.64 1-Mar-10 31-Mar-10 VA0081256 CL2, TOTAL FINAL <ql< td=""> <ql< td=""> 1-Mar-10 31-Mar-10 VA0081256 TP YTD 0.57 1-Mar-10 31-Mar-10 VA0081256 FLOW 16.40 23.75 1-Apr-10 30-Apr-10</ql<></ql<>		-1				0.70		1-Mar-10	31-Mar-10
VA0081256 CL2, TOTAL CONTACT 0.64 1-Mar-10 31-Mar-10 VA0081256 CL2, TOTAL FINAL <ql< td=""> <ql< td=""> 1-Mar-10 31-Mar-10 VA0081256 TP YTD 0.57 1-Mar-10 31-Mar-10 VA0081256 FLOW 16.40 23.75 1-Apr-10 30-Apr-10</ql<></ql<>	VA0081256	ENTEROCOCCI				3		1-Mar-10	31-Mar-10
VA0081256 CL2, TOTAL FINAL <ql< th=""> <ql< th=""> 1-Mar-10 31-Mar-10 VA0081256 TP YTD 0.57 1-Mar-10 31-Mar-10 VA0081256 FLOW 16.40 23.75 1-Apr-10 30-Apr-10</ql<></ql<>	VA0081256	·			0.64			1-Mar-10	31-Mar-10
VA0081256 TP YTD 0.57 1-Mar-10 31-Mar-10 VA0081256 FLOW 16.40 23.75 1-Apr-10 30-Apr-10		·	Ì	-		<ql< td=""><td><ql< td=""><td></td><td></td></ql<></td></ql<>	<ql< td=""><td></td><td></td></ql<>		
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			16 40	23.75	-		- 		
<u> </u>					6.8	i	7.2		
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VA0081256	BOD5	450	578		8	111	1 Apr 10 20 Apr 1
VA0081256	TSS	229	302		3.7	4.3	1-Apr-10 30-Apr-1 1-Apr-10 30-Apr-1
VA0081256	COLIFORM, FECAL	223	1302		3	4.5	1-Apr-10 30-Apr-1
VA0081256	TP			-	0.93		1-Apr-10 30-Apr-1
VA0081256	ENTEROCOCCI	<u> </u>	<u></u>	_	2		1-Apr-10 30-Apr-1
VA0081256	CL2, TOTAL CONTACT	 		0.83		<u>-!</u>	1-Apr-10 30-Apr-1
VA0081256	CL2, TOTAL FINAL	 		0.00	<ql< td=""><td><ql< td=""><td>1-Apr-10 30-Apr-1</td></ql<></td></ql<>	<ql< td=""><td>1-Apr-10 30-Apr-1</td></ql<>	1-Apr-10 30-Apr-1
VA0081256	TP YTD	<u> </u>		<u> </u>	0.66	'&L	1-Apr-10 30-Apr-1
VA0081256	FLOW	12.97	22.19		0.00		1-May-10 31-May-1
VA0081256	PH	112.07	1	6.9		7.4	1-May-10 31-May-1
VA0081256	BOD5	254	346	- 0.0	5	7	1-May-10 31-May-1
VA0081256	TSS	303	461		6.1	9.6	1-May-10 31-May-1
VA0081256	COLIFORM, FECAL		101		14	0.0	1-May-10 31-May-1
VA0081256	TP	- -			0.97	-	1-May-10 31-May-1
VA0081256	ENTEROCOCCI	 			2	<u> </u>	1-May-10 31-May-1
VA0081256	CL2, TOTAL CONTACT			0.82	- -		1-May-10 31-May-1
VA0081256	CL2, TOTAL FINAL	 	İ		0.0032	0.014	1-May-10 31-May-1
VA0081256	TP YTD				0.72	0.01.	1-May-10 31-May-1
VA0081256	FLOW	12.00	13.62			_	1-Jun-10 30-Jun-1
VA0081256	PH	1	10.02	7.0		7.5	1-Jun-10 30-Jun-1
VA0081256	BOD5	192	223	1	4	5	1-Jun-10 30-Jun-1
VA0081256	TSS	269	337		5.8	6.9	1-Jun-10 30-Jun-1
VA0081256	COLIFORM, FECAL	 		 	7		1-Jun-10 30-Jun-1
VA0081256	TP	i	<u> </u>	-	0.96	- 	1-Jun-10 30-Jun-1
VA0081256	ENTEROCOCCI				11	ĺ	1-Jun-10 30-Jun-1
VA0081256	CL2, TOTAL CONTACT		<u> </u>	0.70		1	1-Jun-10 30-Jun-1
VA0081256	CL2, TOTAL FINAL				<ql< td=""><td><ql< td=""><td>1-Jun-10 30-Jun-1</td></ql<></td></ql<>	<ql< td=""><td>1-Jun-10 30-Jun-1</td></ql<>	1-Jun-10 30-Jun-1
VA0081256	TP YTD	 			0.76		1-Jun-10 30-Jun-1
VA0081256	FLOW	10.99	18.87				1-Jul-10 31-Jul-1
VA0081256	PH			6.8		7.5	1-Jul-10 31-Jul-1
VA0081256	BOD5	271	455		7	12	1-Jul-10 31-Jul-1
VA0081256	TSS	233	339		5.6	7.5	1-Jul-10 31-Jul-1
VA0081256	COLIFORM, FECAL				26		1-Jul-10 31-Jul-1
VA0081256	TP	-			1.2		1-Jul-10 31-Jul-1
VA0081256	ENTEROCOCCI				2		1-Jul-10 31-Jul-1
VA0081256	CL2, TOTAL CONTACT			0.37			1-Jul-10 31-Jul-1
VA0081256	CL2, TOTAL FINAL				<ql< td=""><td><ql< td=""><td>1-Jul-10 31-Jul-1</td></ql<></td></ql<>	<ql< td=""><td>1-Jul-10 31-Jul-1</td></ql<>	1-Jul-10 31-Jul-1
VA0081256	TP YTD			ĺ	0.83		1-Jul-10 31-Jul-1
	FLOW	11.09	12.64				1-Aug-10 31-Aug-1
VA0081256	PH			7.0		7.5	1-Aug-10 31-Aug-1
	BOD5	196	323		5	8	1-Aug-10 31-Aug-1
VA0081256	TSS	247	311		5.9	7.2	1-Aug-10 31-Aug-1
VA0081256	COLIFORM, FECAL				9		1-Aug-10 31-Aug-1
VA0081256	TP				0.95		1-Aug-10 31-Aug-1
VA0081256	ENTEROCOCCI				1		1-Aug-10 31-Aug-1
VA0081256	CL2, TOTAL CONTACT			0.75			1-Aug-10 31-Aug-1
VA0081256	CL2, TOTAL FINAL			_	0.0032	0.014	1-Aug-10 31-Aug-1
VA0081256	TP YTD			ļ <u>.</u>	0.84		1-Aug-10 31-Aug-1
VA0081256	FLOW	12.24	44.88				1-Sep-10 30-Sep-1
VA0081256	PH	-		6.7		7.4	1-Sep-10 30-Sep-1
VA0081256	BOD5	285	270		5	7	1-Sep-10 30-Sep-1
	TSS FORM FERN	377	258		6.5	6.9	1-Sep-10 30-Sep-1
VA0081256	COLIFORM, FECAL	-			9		1-Sep-10 30-Sep-1
	TP COOCH				0.92		1-Sep-10 30-Sep-1
VA0081256	ENTEROCOCCI				2		1-Sep-10 30-Sep-1
VA0081256	CL2, TOTAL CONTACT	<u> </u>		0.86		<u> </u>	1-Sep-10 30-Sep-1
VA0081256	CL2, TOTAL FINAL	<u> </u>		_	<ql< td=""><td><ql_< td=""><td>1-Sep-10 30-Sep-1</td></ql_<></td></ql<>	<ql_< td=""><td>1-Sep-10 30-Sep-1</td></ql_<>	1-Sep-10 30-Sep-1
VA0081256	TP YTD	10.55			0.85		1-Sep-10 30-Sep-1
VA0081256	FLOW	16.96	44.83	-			1-Oct-10 31-Oct-1
VA0081256	PH	205		6.2		7.2	1-Oct-10 31-Oct-1
VA0081256	BOD5	627	1236		10	14	1-Oct-10 31-Oct-1
VA0081256	TSS	357	555	_	5.8	7.1	1-Oct-10 31-Oct-1
VA0081256	COLIFORM, FECAL				4		1-Oct-10 31-Oct-1
VA0081256	TP	-			0.93		1-Oct-10 31-Oct-1
VA0081256	ENTEROCOCCI			!	1		1-Oct-10 31-Oct-1

VAD081256 CU, TOTAL FINAL VAD081256 FLOW 12.23 13.49 VAD081256 FLOW VAD081256 FLOW VAD081256 FLOW VAD081256 FLOW VAD081256 FLOW VAD081256 FLOW VAD081256 FLOW VAD081256 FLOW VAD081256 FLOW VAD081256 FLOW VAD081256 FLOW VAD081256 FLOW VAD081256 FLOW VAD081256 CULIFORN, FECAL VAD081256 FLOW VAD081256 CULIFORN, FECAL VAD081256 FLOW	VA0081256	CL2, TOTAL CONTACT			0.38	1		1-Oct-10 31-Oct-10
MAD081256 IP YTD					0.36	<u> </u>	<01	·
MAD081256 FLOW			-					
MAD081258 BUT			12.23	13.49		0.00		1
MAD081256 DODS	·			101.75	7.0	- -	7.3	·
MAD081256 TSS COLIFORM FECAL			191	229		4		1
WAD01296 OOLIFORM, FECAL			_1					-1
VAD081256 TP	VA0081256	COLIFORM, FECAL						
WA0081256 ENTEROCOCCI	VA0081256				<u> </u>			
MAD081256 CLZ, TOTAL CONTACT 0.81	VA0081256	ENTEROCOCCI				 ;		<u> </u>
WA0081256 CLZ. TOTAL FINAL	VA0081256	CL2, TOTAL CONTACT		<u> </u>	0.81			
VA0081256 TP YTD	VA0081256	CL2, TOTAL FINAL				<ql< td=""><td><ql< td=""><td></td></ql<></td></ql<>	<ql< td=""><td></td></ql<>	
VA0081256 PLOW	VA0081256	TP YTD						·
VA0081256 PH	VA0081256	FLOW	11.52	12.80	<u> </u>			
VA0081256 BODS 353 797 8 18 1-Dec-10 31-Dec-10 31-Dec-10 34-Dec-10 3	VA0081256	PH			6.8	İ	7.3	
VA0081256 COLIFORM, FECAL 5	VA0081256	BOD5	353	797	<u> </u>	8		1-Dec-10 31-Dec-10
NAD081256 TP	VA0081256	TSS	455	945		10	21	1-Dec-10 31-Dec-10
VA0081256 ENTEROCOCC	VA0081256	COLIFORM, FECAL				5		1-Dec-10 31-Dec-10
VA0081256 CL2, TOTAL CONTACT 0.81 1-Dec-10 31-Dec-10 VA0081256 TP YTD 0.84 1-Dec-10 31-Dec-10 VA0081256 TP YTD 0.84 1-Dec-10 31-Dec-10 VA0081256 TP Annual Avg 0.84 1-Jan-11 31-Jan-11 VA0081256 TP Annual Avg 1.376 19.54 1-Jan-11 31-Jan-11 VA0081256 TP Annual Avg 1.376 19.54 1-Jan-11 31-Jan-11 VA0081256 PH 6.6 7.2 1-Jan-11 31-Jan-11 VA0081256 BODS 312 367 6 7 1-Jan-11 31-Jan-11 VA0081256 TS TS 478 575 9.2 11 1-Jan-11 31-Jan-11 VA0081256 TS 4 1-Jan-11 31-Jan-11 VA0081256 TS 4 1-Jan-11 31-Jan-11 VA0081256 TP 0.46 1-Jan-11 31-Jan-11 VA0081256 TP 0.46 1-Jan-11 31-Jan-11 VA0081256 TP 0.46 1-Jan-11 31-Jan-11 VA0081256 CL2, TOTAL FINAL 0.93 1-Jan-11 31-Jan-11 VA0081256 CL2, TOTAL FINAL 0.93 1-Jan-11 31-Jan-11 VA0081256 CL2, TOTAL FINAL 0.46 1-Jan-11 31-Jan-11 VA0081256 TP VTD 0.46 1-Jan-11 31-Jan-11 VA0081256 TP VTD 0.46 1-Jan-11 31-Jan-11 VA0081256 TP VTD 0.46 1-Jan-11 31-Jan-11 VA0081256 TP VTD 0.46 1-Jan-11 31-Jan-11 VA0081256 TP VTD 0.46 1-Jan-11 31-Jan-11 VA0081256 TP VTD 0.46 1-Jan-11 31-Jan-11 VA0081256 TP VTD 0.46 1-Jan-11 31-Jan-11 VA0081256 TP VTD 0.46 1-Jan-11 31-Jan-11 VA0081256 TP VTD 0.46 1-Jan-11 31-Jan-11 VA0081256 TP VTD 0.46 1-Jan-11 31-Jan-11 VA0081256 TP VTD 0.46 1-Jan-11 31-Jan-11 VA0081256 TP VTD 1.46	VA0081256	TP				0.68		1-Dec-10 31-Dec-10
VA0081256 CL2, TOTAL FINAL	VA0081256			-		1		1-Dec-10 31-Dec-10
VA0081256 TP YTD					0.81			
VA0081256 TP YTID						<ql< td=""><td><ql< td=""><td>1-Dec-10 31-Dec-10</td></ql<></td></ql<>	<ql< td=""><td>1-Dec-10 31-Dec-10</td></ql<>	1-Dec-10 31-Dec-10
VA0081256 FLOW 13.76 19.54						0.84	<u> </u>	1-Dec-10 31-Dec-10
NA0081256 PH						0.84		
NA0081256 BOD5 312 367 6 7 1-Jan-11 31-Jan-11 7-Jan-11 31-Jan-11 7-Jan-11 31-J	VA0081256	FLOW	13.76	19.54				1-Jan-11 31-Jan-11
NAD081256 TSS 478 575 9.2 11		PH			6.6		7.2	1-Jan-11 31-Jan-11
VA0081256 COLIFORM, FECAL	VA0081256	BOD5	312	367		6	7	1-Jan-11 31-Jan-11
VA0081256 TP		TSS	478	575		9.2	11	1-Jan-11 31-Jan-11
VA0081256 ENTEROCOCC 1 1-Jan-11 31-Jan-11 31-Jan-11 VA0081256 CL2, TOTAL CONTACT 0.93		COLIFORM, FECAL				4		1-Jan-11 31-Jan-11
VA0081256 CL2, TOTAL CONTACT 0.93		1				0.46		1-Jan-11 31-Jan-11
VA0081256 CL2, TOTAL FINAL		-1				1		1-Jan-11 31-Jan-11
VA0081256 TP YTD		1	.		0.93			1-Jan-11 31-Jan-11
VA0081256 FLOW 13.80 15.01 1.Feb-11 28-Feb-11 28-Feb-11 VA0081256 PH						<ql< td=""><td><ql< td=""><td>1-Jan-11 31-Jan-11</td></ql<></td></ql<>	<ql< td=""><td>1-Jan-11 31-Jan-11</td></ql<>	1-Jan-11 31-Jan-11
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VA0081256 TP YTD 0.74 1-Apr-11 30-Apr-11			 		10.00	I <0	I <oi< td=""><td></td></oi<>	
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VA0081256	BOD5	229	455		6	11	1-May-11 31-May-11
	TSS	173	196		4.3	5.0	1-May-11 31-May-11
VA0081256	COLIFORM, FECAL				11		1-May-11 31-May-11
VA0081256	TP				0.84		1-May-11 31-May-11
	ENTEROCOCCI		<u> </u>	- 	1	 	1-May-11 31-May-11
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	CL2, TOTAL CONTACT			0.90			1-May-11 31-May-11
VA0081256	CL2, TOTAL FINAL		1		0.0035	0.016	1-May-11 31-May-11
VA0081256	TP YTD	,			0.76		1-May-11 31-May-11
I———	FLOW	11.47	13.95				1-Jun-11 30-Jun-11
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	PH			7.0		7.4	1-Jun-11 30-Jun-11
VA0081256	BOD5	254	436		6	10	1-Jun-11 30-Jun-11
VA0081256	TSS	190	285		4.4	6.6	1-Jun-11 30-Jun-11
VA0081256	COLIFORM, FECAL				2		1-Jun-11 30-Jun-11
VA0081256	TP		_			+	
	i	 			0.55	<u> </u>	
VA0081256	ENTEROCOCCI				1		1-Jun-11 30-Jun-11
VA0081256	CL2, TOTAL CONTACT			0.89	Ì		1-Jun-11 30-Jun-11
VA0081256	CL2, TOTAL FINAL				<ql< td=""><td><ql< td=""><td>1-Jun-11 30-Jun-11</td></ql<></td></ql<>	<ql< td=""><td>1-Jun-11 30-Jun-11</td></ql<>	1-Jun-11 30-Jun-11
VA0081256	TP YTD	- 		-	0.73	_	1-Jun-11 30-Jun-11
					0.73		_1
VA0081256	FLOW	12.70	21.03				1-Jul-11 31-Jul-11
VA0081256	PH	_	_	6.9		7.5	1-Jul-11 31-Jul-11
VA0081256	BOD5	218	291		4	6	1-Jul-11 31-Jul-11
VA0081256	TSS	420	1110		8.4	22	1-Jul-11 31-Jul-11
		720	1110				
VA0081256	COLIFORM, FECAL				6		1-Jul-11 31-Jul-11
VA0081256	TP				0.99		1-Jul-11 31-Jul-11
VA0081256	ENTEROCOCCI				1		1-Jul-11 31-Jul-11
VA0081256	CL2, TOTAL CONTACT	·		0.0			1-Jul-11 31-Jul-11
VA0081256	CL2, TOTAL FINAL	1	_	-0.0	0.0039	0.017	1-Jul-11 31-Jul-11
	-1					10.017	
VA0081256	TP YTD				0.76		1-Jul-11 31-Jul-11
VA0081256	FLOW	13.85	36.69				1-Aug-11 31-Aug-11
VA0081256	ĺРН			6.5		7.4	1-Aug-11 31-Aug-11
VA0081256	BOD5	307	383		6	9	1-Aug-11 31-Aug-11
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VA0081256	TSS	502	382		7.7	9.1	1-Aug-11 31-Aug-11
VA0081256	COLIFORM, FECAL				6		1-Aug-11 31-Aug-11
VA0081256	TP				1.3		1-Aug-11 31-Aug-11
VA0081256	ENTEROCOCCI	-i			1		1-Aug-11 31-Aug-11
VA0081256			-	- 0.00			
	CL2, TOTAL CONTACT			0.26		_ 	
VA0081256	CL2, TOTAL FINAL				<ql< td=""><td><ql< td=""><td>1-Aug-11 31-Aug-11</td></ql<></td></ql<>	<ql< td=""><td>1-Aug-11 31-Aug-11</td></ql<>	1-Aug-11 31-Aug-11
VA0081256	TP YTD				0.84		1-Aug-11 31-Aug-11
VA0081256	FLOW	16.05	22.59				1-Sep-11 30-Sep-11
VA0081256	PH	1.0.00		7.0	-	7.3	1-Sep-11 30-Sep-11
		0000		7.0			
VA0081256	BOD5	2839	254		4	5	1-Sep-11 30-Sep-11
VA0081256	TSS	402	517		6.7	8.1	1-Sep-11 30-Sep-11
VA0081256	COLIFORM, FECAL				4		1-Sep-11 30-Sep-11
VA0081256	TP	-		- 	0.79	 	1-Sep-11 30-Sep-11
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VA0081256	ENTEROCOCCI			<u> </u>	1		1-Sep-11 30-Sep-11
VA0081256	CL2, TOTAL CONTACT			0.73			1-Sep-11 30-Sep-11
VA0081256	CL2, TOTAL FINAL				<ql< td=""><td><ql< td=""><td>1-Sep-11 30-Sep-11</td></ql<></td></ql<>	<ql< td=""><td>1-Sep-11 30-Sep-11</td></ql<>	1-Sep-11 30-Sep-11
VA0081256	TP YTD		1		0.83		1-Sep-11 30-Sep-11
VA0081256	FLOW	13.66	18.40		- 	-i	1-Oct-11 31-Oct-11
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VA0081256	PH			7.1		7.8	1-Oct-11 31-Oct-11
VA0081256	BOD5	272	305		5	6	1-Oct-11 31-Oct-11
VA0081256	TSS	389	486		7.6	8.3	1-Oct-11 31-Oct-11
VA0081256	COLIFORM, FECAL	1			2	 	1-Oct-11 31-Oct-11
	- i	-		-			
VA0081256	TP	<u> </u>	_		1.5		1-Oct-11 31-Oct-11
VA0081256	ENTEROCOCCI			_	1		1-Oct-11 31-Oct-11
VA0081256	CL2, TOTAL CONTACT			0.64			1-Oct-11 31-Oct-11
VA0081256	CL2, TOTAL FINAL				0.0039	0.017	1-Oct-11 31-Oct-11
		 				10.0.7	1-Oct-11 31-Oct-11
VA0081256	TP YTD	1			0.89		· i
VA0081256	FLOW	11.99	14.50				1-Nov-11 30-Nov-11
VA0081256	PH			7.1		7.3	1-Nov-11 30-Nov-11
VA0081256	BOD5	243	258		5	5	1-Nov-11 30-Nov-11
VA0081256	TSS	391	473		8.5	11	1-Nov-11 30-Nov-11
		1991	- 413			11	
		1			5	i	1-Nov-11 30-Nov-11
VA0081256	COLIFORM, FECAL						
VA0081256 VA0081256	TP				0.89	<u> </u>	1-Nov-11 30-Nov-11

VA0081256	ENTEROCOCCI				3		1-Nov-11	30-Nov-11
VA0081256	CL2, TOTAL CONTACT			0.60			1-Nov-11	30-Nov-11
VA0081256	CL2, TOTAL FINAL			-	0.010	0.029	1-Nov-11	30-Nov-11
VA0081256	TP YTD				0.89		1-Nov-11	30-Nov-11
VA0081256	FLOW	12.28	12.85				1-Dec-11	31-Dec-11
VA0081256	PH			7.0		7.3	1-Dec-11	31-Dec-11
VA0081256	BOD5	271	305		6	7	1-Dec-11	31-Dec-11
VA0081256	TSS	353	381	_	7.6	8.2	1-Dec-11	31-Dec-11
VA0081256	COLIFORM, FECAL			1	1		1-Dec-11	31-Dec-11
VA0081256	TP				1.5		1-Dec-11	31-Dec-11
VA0081256	ENTEROCOCCI				1		1-Dec-11	31-Dec-11
VA0081256	CL2, TOTAL CONTACT			0.83			1-Dec-11	31-Dec-11
VA0081256	CL2, TOTAL FINAL				0.0048	0.021	1-Dec-11	31-Dec-11
VA0081256	TP YTD				0.94		1-Dec-11	31-Dec-11
VA0081256	TP Annual Avg				0.94		1-Jan-11	31-Dec-11
VA0081256	FLOW	12.21	14.18				1-Jan-12	31-Jan-12
VA0081256	PH			6.9		7.3	1-Jan-12	31-Jan-12
VA0081256	BOD5	307	403	i	7	8	1-Jan-12	31-Jan-12
VA0081256	TSS	602	966	ĺ	13	20	1-Jan-12	31-Jan-12
VA0081256	COLIFORM, FECAL		- j	i -	3		1-Jan-12	31-Jan-12
VA0081256	TP			i	0.89		1-Jan-12	31-Jan-12
VA0081256	ENTEROCOCCI			İ	1		1-Jan-12	31-Jan-12
VA0081256	CL2, TOTAL CONTACT			0.80		ĺ	1-Jan-12	31-Jan-12
VA0081256	CL2, TOTAL FINAL			· ·	<ql< td=""><td><ql< td=""><td>1-Jan-12</td><td>31-Jan-12</td></ql<></td></ql<>	<ql< td=""><td>1-Jan-12</td><td>31-Jan-12</td></ql<>	1-Jan-12	31-Jan-12
VA0081256	TP YTD				0.89		1-Jan-12	31-Jan-12
VA0081256	FLOW	14.58	19.14				1-Feb-12	29-Feb-12
VA0081256	PH			7.0		7.3	1-Feb-12	29-Feb-12
VA0081256	BOD5	313	468		6	9	1-Feb-12	29-Feb-12
VA0081256	TSS	508	729	İ	9	14	1-Feb-12	29-Feb-12
VA0081256	COLIFORM, FECAL			ĺ	3		1-Feb-12	29-Feb-12
VA0081256	TP				0.86		1-Feb-12	29-Feb-12
VA0081256	ENTEROCOCCI	i			2		1-Feb-12	29-Feb-12
VA0081256	CL2, TOTAL CONTACT			0.44			1-Feb-12	29-Feb-12
VA0081256	CL2, TOTAL FINAL	j		ŀ	0.0034	0.014	1-Feb-12	29-Feb-12
VA0081256	TP YTD		1		0.88		1-Feb-12	29-Feb-12
VA0081256	FLOW	15.18	20.66				1-Mar-12	31-Mar-12
VA0081256	PH			6.9		7.4	1-Mar-12	31-Mar-12
VA0081256	BOD5	275	303		5	5	1-Mar-12	31-Mar-12
VA0081256	TSS	317	457		5	7	1-Mar-12	31-Mar-12
VA0081256	COLIFORM, FECAL				3		1-Mar-12	
VA0081256	TP				0.56		1-Mar-12	31-Mar-12
VA0081256	ENTEROCOCCI				1		1-Mar-12	
VA0081256	CL2, TOTAL CONTACT			0.52			1-Mar-12	31-Mar-12
VA0081256	CL2, TOTAL FINAL				<ql< td=""><td><ql< td=""><td>1-Mar-12</td><td></td></ql<></td></ql<>	<ql< td=""><td>1-Mar-12</td><td></td></ql<>	1-Mar-12	
VA0081256	TP YTD				0.77		1-Mar-12	31-Mar-12

Pulled from discoverer 5/25/12. DOA

SALTWATER AND TRANSITION ZONES WATER QUALITY CRITERIA / WASTELOAD ALLOCATION ANALYSIS

Facility Name:

HRSD Boat Harbor STP

Permit No.: VA0081256

Version: OWP Guidance Memo 00-2011 (8/24/00)

Receiving Stream: James River

Stream Information			Mixing Information		Effluent Information		
Mean Hardness (as CaCO3) =		mg/l	Design Flow (MGD)	25	Mean Hardness (as CaCO3) =	163	mg/L
90th % Temperature (Annual) =	26.7	(° C)	Acute WLA multiplier	61	90 % Temperature (Annual) =		(° C)
90th % Temperature (Winter) =		(° C)	Chronic WLA multiplier	267	90 % Temperature (Winter) =	18	(°C)
90th % Maximum pH =	8.3		Human health WLA multiplier	267	90 % Maximum pH =	7.52	SU
10th % Maximum pH =	7.7				10 % Maximum pH =	7.2	SU
Tier Designation (1 or 2) =	1				Discharge Flow =	20	MGD
Early Life Stages Present Y/N =	Υ						
Tidal Zone =	1	(1 = saltwater, 2 = transition	on zone)				
Mean Salinity =	14.15	(g/kg)					

Parameter	Background	Wate	er Quality C	riteria	Wast	eload Alloca	itions	Antide	gradation Base	eline	Antide	gradation Alk	ocations	Most L	imiting Alloc	ations
(ug/l unless noted)	Conc.	Acute	Chronic	HH	Acute	Chronic	нн	Acute	Chronic	HH	Acute	Chronic	нн	Acute	Chronic	нн
Acenapthene	0		_	9.9E+02		-	2.6E+05	_						-		2.6E+05
Acrolein		-		9.3E+00			2.5E+03							-		2.5E+03
Acrylonitrile ^c				2.5E+00			6.7E+02						-			6.7E+02
Aldrin ^c	0	1.3E+00		5.0E-04	7.9E+01		1.3E-01							7.9E+01		1.3E-01
Ammonia-N (mg/l) - Annual	0	2.01E+00	2.80E-01		1.23E+02	7.47E+01					-			1.23E+02	7.47E+01	
Ammonia-N (mg/l) - Winter	0	1.28E+01	1.85E+00		7.81E+02	4.93E+02								7.81E+02	4.93E+02	
Anthracene	0			4.0E+04			1.1E+07					-				1.1E+07
Antimony	0			6.4E+02			1.7E+05						-			1.7E+05
Arsenic	0	6.9E+01	3.6E+01	-	4.2E+03	9.6E+03			-	-		_	-	4.2E+03	9.6E+03	
Benzene ^c	0	_		5.1E+02	_	-	1.4E+05	-		-	_		-			1.4E+05
Benzidine ^C			_	2.0E-03	-		5.3E-01					-				5.3E-01
Benzo (a) anthracene ^c	0			1.8E-01	_	-	4.8E+01			-	-	-	-			4.8E+01
Benzo (b) fluoranthene ^c	0			1.8E-01			4.8E+01									4.8E+01
Benzo (k) fluoranthene ^c	0			1.8E-01			4.8E+01		••	-						4.8E+01
Benzo (a) pyrene ^c	0			1.8E-01			4.8E+01		*-			**				4.8E+01
Bis2-Chloroethyl Ether ^c	0			5.3E+00			1.4E+03									1.4E+03
Bis2-Chloroisopropyl Ether	0			6.5E+04			1.7E+07		**	_				-		1.7E+07
Bis2-Ethylhexyl Phthalate ^C	0			2.2E+01			5.9E+03			_	-					5.9E+03
Bromoform ^c	0			1.4E+03			3.7E+05		-		-			 		3.7E+05
Butylbenzylphthalate	0			1.9E+03		-	5.1E+05			-			-	-		5.1E+05
Cadmium	0	4.0E+01	8.8E+00		2.4E+03	2.3E+03	-	_		_			-	2.4E+03	2.3E+03	
Carbon Tetrachloride ^c	0	-	-	1.6E+01			4.3E+03	-	-		-	-	-	-		4.3E+03
Chlordane ^C	0	9.0E-02	4.0E-03	8.1E-03	5.5E+00	1.1E+00	2.2E+00				<u> </u>			5.5E+00	1.1E+00	2.2E+00

Parameter	Background	Wat	er Quality C	riteria	Was	teload Alloca	ations	Antide	gradation Bas	eline	Antide	gradation Alloc	cations	Most L	imiting Alloc	ations
(ug/l unless noted)	Conc.	Acute	Chronic	нн	Acute	Chronic	НH	Acute	Chronic	нн	Acute	Chronic	нн	Acute	Chronic	НН
TRC	0							_	_		_					_
Chlorine Prod. Oxidant	0	1.3E+01	7.5E+00		7.9E+02	2.0E+03	_		_	_			_	7.9E+02	2.0E+03	
Chlorobenzene			*-	1.6E+03			4.3E+05						_			4.3E+05
Chlorodibromomethane ^c	0			1.3E+02		_	3.5E+04									3.5E+04
Chloroform	0			1.1E+04		_	2.9E+06									2.9E+06
2-Chioronaphthalene	0			1.6E+03	_		4.3E+05									4.3E+05
2-Chlorophenol	0			1.5E+02	_		4.0E+04									4.0E+04
Chlorpyrifos	0	1.1E-02	5.6E-03		6.7E-01	1.5E+00								6.7E-01	1.5E+00	
Chromium III	0			- -												
Chromium Vł	0	1.1E+03	5.0E+01		6.7E+04	1.3E+04			-		_		_	6.7E+04	1.3E+04	
Chrysene ^c	0			1.8E-02	_		4.8E+00					_				4.8E+00
Copper	0	9.3E+00	6.0E+00		5.7E+02	1.6E+03	-			_				5.7E+02	1.6E+03	
Cyanide, Free	0	1.0E+00		1.6E+04	6.1E+01	2.7E+02	4.3E+06			_				6.1E+01	2.7E+02	4.3E+06
DDD °	0			3.1E-03			8.3E-01			_	_					8.3E-01
DDE °	0			2.2E-03			5.9E-01									5.9E-01
DDT °	0	1,3E-01	1.0E-03	2.2E-03	7.9E+00	2.7E-01	5.9E-01							7.9E+00	2.7E-01	5.9E-01
Demeton	0		1.0E-01			2.7E+01					_				2.7E+01	
Diazinon	0	8.2E-01	8.2E-01		5.0E+01	2.2E+02	-							5.0E+01	2.2E+02	
Dibenz(a,h)anthracene ^c	0			1.8E-01			4.8E+01	_					-	-		4.8E+01
1,2-Dichlorobenzene	0			1.3E+03	_	-	3.5E+05	-					-			3.5E+05
1,3-Dichlorobenzene	0			9.6E+02		_	2.6E+05									2.6E+05
1,4-Dichlorobenzene	0			1.9E+02	-	-	5.1E+04		-		<u></u>	-		-		5.1E+04
3,3-Dichlorobenzidine ^c	0			2.8E-01			7.5E+01							ļ		7.5E+01
Dichlorobromomethane ^c	0	_		1.7E+02			4.5E+04		-							4.5E+04
1,2-Dichloroethane ^c	0			3.7E+02			9.9E+04					- -				9.9E+04
1,1-Dichloroethylene	0			7.1E+03			1.9E+06									1.9E+06
1,2-trans-dichloroethylene	0			1.0E+04		-	2.7E+06				-					2.7E+06
2,4-Dichlorophenoi	0			2.9E+02		_	7.7E+04									7.7E+04
1,2-Dichloropropane ^c	0	_		1.5E+02			4.0E+04							-		4.0E+04
1,3-Dichloropropene ^c	0			2.1E+02	_		5.6E+04	-	-		_		-	-		5.6E+04
Dieldrin ^c	0	7.1E-01	1.9E-03	5.4E-04	4.3E+01	5.1E-01	1.4E-01							4.3E+01	5.1E-01	1.4E-01
Diethyl Phthalate	0	_		4.4E+04	-		1.2E+07							-		1.2E+07
2,4-Dimethylphenol	0			8.5E+02			2.3E+05							-		2.3E+05
Dimethyl Phthalate	0			1.1E+06			2.9E+08									2.9E+08
Di-n-Butyl Phthalate	0			4.5E+03			1.2E+06									1.2E+06
2,4 Dinitrophenol	0			5.3E+03	_		1.4E+06									1.4E+06
2-Methyl-4,6-Dinitrophenol	0			2.8E+02			7.5E+04									7.5E+04
2,4-Dinitrotoluene ^C	0	-		3.4E+01			9.1E+03									9.1E+03
Dioxin 2,3,7,8- tetrachlorodibenzo-p-dioxin				E 1E 00			1 /E 05	_				_		_		1.4E-05
1,2-Diphenylhydrazine ^c	0			5.1E-08	_		1.4E-05 5.3E+02	_		-	-	_	_		<u></u>	5.3E+02
	0	3 45 00	9.7E.03	2.0E+00 8.9E+01	2.1E+00	:- 2.3E+00	2.4E+04	_				_	_	2.1E+00	2.3E+00	2.4E+04
Alpha-Endosulfan	0	3.4E-02	8.7E-03	0.9E*U1	4.1⊏+00	2.32700	2.40704							7.12.700	2.52.700	2.72104

Parameter	Background	Wate	er Quality C	riteria	Was	teload Alloca	ations	Antide	gradation Bas	seline	Antide	gradation Allo	cations	Most Li	miting Alloc	ations
(ug/l unless noted)	Conc.	Acute	Chronic	НН	Acute	Chronic	НН	Acute	Chronic	нн	Acute	Chronic	НН	Acute	Chronic	нн
Beta-Endosulfan	0	3.4E-02	8.7E-03	8.9E+01	2.1E+00	2.3E+00	2.4E+04							2.1E+00	2.3E+00	2.4E+04
Alpha + Beta Endosulfan	0	3.4E-02	8.7E-03	**	2.1E+00	2.3E+00								2.1E+00	2.3E+00	
Endosulfan Sulfate	0			8.9E+01			2.4E+04									2.4E+04
Endrin	0	3.7E-02	2.3E-03	6.0E-02	2.3E+00	6.1E-01	1.6E+01							2.3E+00	6.1E-01	1.6E+01
Endrin Aldehyde	0			3.0E-01			8.0E+01					-			**	8.0E+01
Ethylbenzene	0			2.1E+03			5.6E+05									5.6E+05
Fluoranthene	0			1.4E+02	-		3.7E+04					_	-		••	3.7E+04
Fluorene	0			5.3E+03		_	1.4E+06							-		1.4E+06
Guthion	0	-	1.0E-02		-	2.7E+00		-	-		_		_		2.7E+00	
Heptachlor ^C	0	5.3E-02	3.6E-03	7.9E-04	3.2E+00	9.6E-01	2.1E-01	-			_	-		3.2E+00	9.6E-01	2.1E-01
Heptachlor Epoxide ^c	0	5.3E-02	3.6E-03	3.9E-04	3.2E+00	9.6E-01	1.0E-01							3.2E+00	9.6E-01	1.0E-01
Hexachlorobenzene ^c	0			2.9E-03		**	7.7E-01			-		-	-			7.7E-01
Hexachlorobutadiene ^C	0			1.8E+02			4.8E+04					-				4.8E+04
Hexachlorocyclohexane Alpha- BHC ^c	0			4.9E-02			1.3E+01	_								1.3E+01
Hexachlorocyclohexane Beta- BHC ^C	0			1.7E-01			4.5E+01									4.5E+01
Hexachlorocyclohexane	Ů															
Gamma-BHC ^c (Lindane)	0	1.6E-01		1.8E+00	9.8E+00		4.8E+02							9.8E+00		4.8E+02
Hexachlorocyclopentadiene	0			1.1E+03			2.9E+05	-					-	-		2.9E+05
Hexachloroethane ^C	0			3.3E+01			8.8E+03	-				-	-	-	-	8.8E+03
Hydrogen Sulfide	0		2.0E+00			5.3E+02							-		5.3E+02	
Indeno (1,2,3-cd) pyrene C	0	-		1.8E-01	-		4.8E+01	-			-			-	••	4.8E+01
Isophorone ^c .	0	-	-	9.6E+03		_	2.6E+06	-		-		-		-		2.6E+06
Kepone	0		0.0E+00		-	0.0E+00		-			-	-		-	0.0E+00	
Lead	0	2.4E+02	9.3E+00	-	1.5E+04	2.5E+03	-		_	-	-	-		1.5E+04	2.5E+03	
Malathion	0		1.0E-01	-		2.7E+01	-					-			2.7E+01	
Mercury	0	1.8E+00	9.4E-01		1.1E+02	2.5E+02		-		-				1.1E+02	2.5E+02	
Methyl Bromide	0			1.5E+03			4.0E+05			-				<u></u>	**	4.0E+05
Methylene Chloride ^C	0			5.9E+03			1.6E+06		+-			-				1.6E+06
Methoxychlor	0		3.0E-02			8.0E+00									8.0E+00	
Mirex	0		0.0E+00			0.0E+00									0.0E+00	
Nickel	0	7.4E+01	8.2E+00	4.6E+03	4.5E+03	2.2E+03	1.2E+06					-		4.5E+03	2.2E+03	1,2E+06.
Nitrobenzene	0			6.9E+02		-	1.8E+05				_					1.8E+05
N-Nitrosodimethylamine ^c	0			3.0E+01		-	8.0E+03	-						-		8.0E+03
N-Nitrosodiphenylamine ^C	0			6.0E+01	-	-	1.6E+04		-	-						1.6E+04
N-Nitrosodi-n-propylamine ^C	0			5.1E+00		-	1.4E+03		-					4.75.00	4.55.00	1.4E+03
Nonylphenol	0	7.0E+00	1.7E+00		4.3E+02	4.5E+02	-	_		-	_	-	_	4.3E+02	4.5E+02	
Parathion	0		<u></u>	-	-				-	-	-		-	-	0.05.00	 4.7E.84
PCB Total ^C	0		3.0E-02	6.4E-04		8.0E+00	1.7E-01	-	-			-	-	7.05.00	8.0E+00	1.7E-01
Pentachlorophenol ^c	0	1.3E+01	7.9E+00	3.0E+01	7.9E+02	2.1E+03	8.0E+03						-	7.9E+02	2.1E+03	8.0E+03

Parameter	Background	Wat	er Quality C	riteria	Wast	eload Alloca	ations	Antide	gradation Bas	eline	Antideo	gradation Allo	cations	Most L	imiting Alloc	ations
(ug/l unless noted)	Conc.	Acute	Chronic	НН	Acute	Chronic	HH	Acute	Chronic	HH	Acute	Chronic	нн	Acute	Chronic	нн
Phenol	0			8.6E+05	**	_	2.3E+08									2.3E+08
Phosphorus (Elemental)	0		1.0E-01			2.7E+01									2.7E+01	
Pyrene	0			4.0E+03			1.1E+06									1.1E+06
Selenium	0	2.9E+02	7.1E+01	4.2E+03	1.8E+04	1.9E+04	1.1E+06							1.8E+04	1.9E+04	1.1E+06
Silver	0	1.9E+00			1.2E+02			**						1.2E+02		
1,1,2,2-Tetrachloroethane ^C	0			4.0E+01			1.1E+04						-			1.1E+04
Tetrachloroethylene ^C	0			3.3E+01			8.8E+03			-	-				-	8.8E+03
Thallium	0	_		4.7E-01	_	-	1.3E+02									1.3E+02
Toluene	0			6.0E+03	_		1.6E+06						-			1.6E+06
Toxaphene ^C	0	2.1E-01	2.0E-04	2.8E-03	1.3E+01	5.3E-02	7.5E-01	₩.				-		1.3E+01	5.3E-02	7.5E-01
Tributyltin	0	4.2E-01	7.4E-03		2.6E+01	2.0E+00								2.6E+01	2.0E+00	
1,2,4-Trichlorobenzene	0			7.0E+01			1.9E+04									1.9E+04
1,1,2-Trichloroethane ^c			-	1.6E+02			4.3E+04									4.3E+04
Trichloroethylene ^C	0			3.0E+02		-	8.0E+04						_			8.0E+04
2,4,6-Trichlorophenol ^c	0	_	-	2.4E+01			6.4E+03	-	-	-						6.4E+03
Vinyl Chloride ^c	0	-	-	2.4E+01		_	6.4E+03	_	_	_	-	-		-	_	6.4E+03
Zinc	0	9.0E+01	8.1E+01	2.6E+04	5.5E+03	2.2E+04	6.9E+06				-	-		5.5E+03	2.2E+04	6.9E+06

Notes:

- 1. All concentrations expressed as micrograms/liter (ug/l), unless noted otherwise
- 2. Discharge flow is highest monthly average or Form 2C maximum for Industries and design flow for Municipals
- 3. Metals measured as Dissolved, unless specified otherwise
- 4. "C" indicates a carcinogenic parameter
- 5. For transition zone waters, spreadsheet prints the lesser of the freshwater and saltwater water quality criteria.
- 6. Regular WLA = (WQC x WLA multiplier) (WLA multiplier 1)(background conc.)
- 7. Antideg. Baseline = (0.25(WQC background conc.) + background conc.) for acute and chronic
 - = (0.1(WQC background conc.) + background conc.) for human health
- 8. Antideg. WLA = (Antideg. Baseline)(WLA multiplier) (WLA multiplier 1)(background conc.)

	Site Specific
<u>Metal</u>	Target Value (SSTV)
Antimony	1.7E+05
Arsenic III	1.7E+03
Cadmium	9.8E+02
Chromium III	#VALUE!
Chromium VI	8.0E+03
Copper	2.3E+02
Lead	1.5E+03
Mercury	4.4E+01
Nickel	1.3E+03
Selenium	7.1E+03
Silver	4.6E+01
Zinc	2.2E+03

Note: do not use QL's lower than the minimum QL's provided in agency guidance

ATTACHMENT 7 SPECIAL CONDITIONS RATIONALE

VPDES PERMIT PROGRAM LIST OF SPECIAL CONDITIONS RATIONALE

Name of Condition:

B. Additional Total Residual Chlorine (TRC) Limitations and Monitoring Requirements

<u>Rationale</u>: Required by Water Quality Standards, 9VAC 25-260-170, Fecal coliform bacteria; other waters. Also, 40 CFR 122.41(e) requires the permittee, at all times, to properly operate and maintain all facilities and systems of treatment in order to comply with the permit. This ensures proper operation of chlorination equipment to maintain adequate disinfection.

- C. OTHER REQUIREMENTS OR SPECIAL CONDITIONS
 - 1.a. Sludge Reopener

Rationale: Required by the VPDES Permit Regulation, 9 VAC 25-31-220 C., and 40 CFR 122.44 (c)(4), which note that all permits for domestic sewage treatment plants (including sludge-only facilities) include any applicable standard for sewage sludge use or disposal promulgated under section 405(d) of the Clean Water Act.

1.b. Water Quality Standards Reopener

Rationale: The VPDES Permit Regulation, 9 VAC 25-31-220 D requires effluent limitations to be established which will contribute to the attainment or maintenance of water quality criteria.

1.c. Nutrient Reopener

Rationale: 9 VAC 25-40-70 A authorizes DEQ to include technology-based annual concentration limits in the permits of facilities that have installed nutrient control equipment, whether by new construction, expansion or upgrade. 9 VAC 25-31-390 A authorizes DEQ to modify VPDES permits to promulgate amended water quality standards.

1.d. Nutrient Removal Facilities Reopener

Rationale: 9 VAC 25-40-70 A authorizes DEQ to include technology-based annual concentration limits in the permits of facilities that have installed nutrient control equipment, whether by new construction, expansion or upgrade.

1.e. Total Maximum Daily Load (TMDL) Reopener

Rationale: For specified waters, section 303(d) of the Clean Water Act requires the development of total maximum daily loads necessary to achieve the applicable water quality standards. The TMDL must take into account seasonal variations and a margin of safety. In addition, section 62.1-44.19:7 of the State Water Control Law requires the development and implementation of plans to address impaired waters, including TMDLs. This condition allows for the permit to be either modified or, alternatively, revoked and reissued to incorporate the requirements of a TMDL once it is developed. In addition, the reopener recognizes that, in according to section 402(o)(l) of the Clean Water Act, limits and/or conditions may be either more or less stringent than those contained in this permit. Specifically, they can be relaxed if they are the result of a TMDL, basin plan or other wasteload allocation prepared under section 303 of the Act.

2. Licensed Operator Requirement

Rationale: The Permit Regulation, 9 VAC 25-31-200 D and Code of Virginia 54.1-2300 et. seq., Rules and Regulations for Waterworks and Wastewater Works Operators (18 VAC 160-20-10 et seq.) requires licensure of operators.

3. Reliability Class

 $\underline{\text{Rationale}}$: Required by Sewage Collection and Treatment Regulations, 12 VAC 5-581-20 and 120 for all municipal facilities.

4. CTC, CTO and O & M Manual Requirements

Rationale: Required by the State Water Control Law, Section 62.1-44.19; the Sewage Collection and Treatment Regulations (12 VAC 5-581 et seq); Section 401 of the Clean Water Act; 40 CFR 122.41(e); and the VPDES Permit Regulation (9 VAC-25-31-190E).

9 VAC 25-40-70 A authorizes DEQ to include technology-based annual concentration limits in the permits of facilities that have installed nutrient control equipment, whether by new construction, expansion or upgrade.

5. 95% Design Capacity Notification

<u>Rationale</u>: Required by the VPDES Permit Regulation, 9 VAC 25-31-200 B.2. for all POTW and PVOTW permits. Best professional judgment is used to apply this condition to other (private) municipal treatment facilities.

6. Quantification Levels Under Part I.A.

Rationale: States are authorized to establish monitoring methods and procedures to compile and analyze data on water quality, as per 40 CFR part 130, Water Quality Planning and Management, subpart 130.4.

7. Compliance Reporting Under Part I.A.

Rationale: Defines reporting requirements for toxic parameters with quantification levels and other limited parameters to ensure consistent, accurate reporting on submitted reports.

8. Effluent Monitoring Frequencies

Rationale: The incentive for reduced monitoring is an effort to reduce the cost of environmental compliance and to provide incentives to facilities which demonstrate outstanding performance and consistent compliance with their permits: Facilities which cannot comply with specific effluent parameters or have other related violations will not be eligible for this benefit. This is in conformance with Guidance Memorandum No. 98-2005 - Reduced Monitoring and EPA's proposed "Interim Guidance For Performance-Based Reduction of NPDES Permit Monitoring Frequencies" (EPA 833-B-96-001) published in April 1996.

9. Indirect Dischargers

<u>Rationale</u>: Required by VPDES Permit Regulation, 9 VAC 25-31-200 B.1. for POTWs and PVOTWs that receive waste from someone other than the owner of the treatment works.

10. Sludge Management Plan

Rationale: The VPDES Permit Regulation, 9 VAC 25-31-420, and 40 CFR 503.1 specify the purpose and applicability for sludge management plans. The VPDES Permit Regulation, 9 VAC 25-31-100 J.4., also sets forth certain detailed information which must be included in a sludge management plan. The VPDES sewage sludge permit application form and its attachments constitute the sludge management plan and will be considered for approval with the VPDES permit. In addition, the Biosolids Use Regulation, 12 VAC 5-585-330 and 340, specifies the general purpose and control requirements for an O&M manual in order to facilitate proper O&M of the facilities to meet the requirements of the regulation.

11. Total Phosphorus reporting calculations

Rationale: §62.1-44.19:13 of the Code of Virginia defines how annual nutrient loads are to be calculated; this is carried forward in 9 VAC 25-820-70. As annual concentrations (as opposed to loads) are limited in the individual permit, this special condition is intended to reconcile the reporting calculations between the permit programs, as the permittee is collecting a single set of samples for the purpose of ascertaining compliance with two permits.

12. Suspension of concentration limits for E3/E4 facilities

Rationale: 9 VAC 25-40-70 B authorizes DEQ to approve an alternate compliance method to the technology-based effluent concentration limitations as required by subsection A of this section. Such alternate compliance method shall be incorporated into the permit of an Exemplary Environmental Enterprise (E3) facility or an Extraordinary Environmental Enterprise (E4) facility to allow the suspension of applicable technology-based effluent concentration limitations during the period the E3 or E4 facility has a fully implemented environmental management system that includes operation of installed nutrient removal technologies at the treatment efficiency levels for which they were designed.

D. PRETREATMENT

Rationale: The permit regulation, 9 VAC 25-31-10 et seq., Part VII, establishes the legal requirements for State, local government and industry to implement National Pretreatment Standards. The Pretreatment Standards are implemented to prevent POTW plant pass through, interference, violation of water quality standards or contamination of sewage sludge. The regulation requires POTWs with a total design flow greater than 5 MGD with significant or categorical industrial input to establish a Pretreatment Program. The regulation also may apply to POTWs with design flows less than 5 MGD if circumstances warrant control of industrial discharges.

E. TOXICS MANAGENENT PROGRAM (TMP)

Rationale: To determine the need for pollutant specific and/or whole effluent toxicity limits as may be required by the VPDES Permit Regulation, 9 VAC 25-31-220 D. and 40 CFR 122.44 (d). See Attachment 9 of this fact sheet for additional justification.

ATTACHMENT 8

TOXICS MONITORING/TOXICS REDUCTION/
WET LIMIT RATIONALE

MEMORANDUM

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY TIDEWATER REGIONAL OFFICE

5636 Southern Boulevard

Virginia Beach, VA 23462

SUBJECT: Toxics Management Program (TMP) testing for HRSD-Boat Harbor Plant (VA0081256)

TO:

File

FROM:

Deanna Austin

DATE:

5/25/12

COPIES:

HRSD-Boat Harbor plant is a major municipal discharger (design flow 25 MGD) of treated domestic sewage. Discharge from outfall 001 to the James River near the confluence of the Chesapeake Bay will continue to be monitored for toxicity during this permit term.

There has been no change in the dilution from the previous permit; therefore the nearfield (acute) dilution factor (61) remains the same. The following calculation shows how the TU_a was derived.

Acute dilution = 100/IWCa

61= 100/IWCa

 $100/61 = 1.64\% \text{ IWC}_{a}$

LC₅₀₌ IWC/Acute Water Quality Instream criterion

 $LC_{50} = 1.64/0.3 = 5.47\%$ (round to 6% effluent)

 $TU_a = 1/LC_{50} \times 100$

 $1/6 \times 100 = 16.67$

 $TU_a = 16.7$

The following table details the results of the TMP tests for the last permit term. Since all data met the LC_{50} , a WET limit is not needed at this time and annual TMP testing should continue.

				SURVIVAL in 11.2%			
OUTFALL	SPECIES	SAMPLEDT	LC50	effluent	TU	TEST	LAB
001	A.b.	11/18/08	>11.2	100	<8.9	Acute	HRSD
001	C.v.	11/18/08	>11.2	100	<8.9	Acute	HRSD
001	A.b.	9/15/09	>11.2	100	<8.9	Acute	HRSD
001	C.v.	9/15/09	>11.2	100	<8.9	Acute	HRSD
001	C.v.	9/14/10	>11.2	100	<8.9	Acute	HRSD

001	A.b.	9/14/10	>11.2	100	<8.9	Acute	HRSD
001	C.v.	6/24/11	>11.2	100	<8.9	Acute	HRSD
001	A.b.	6/24/11	>11.2				HRSD
001	A.b.	2/8/12	>11.2	100	<8.9	Acute	HRSD
001	C.v.	2/8/12	>11.2			-	HRSD

C.v. - Cyprinodon variegatus A.b.- Americamysis bahia

The following TMP language is recommended for the reissuance of the HRSD Boat Harbor permit (VA0081256).

D. TOXICS MANAGEMENT PROGRAM (TMP)

- 1. Biological Monitoring
 - a. In accordance with the schedule in 2. below, the permittee shall conduct annual acute toxicity tests for the duration of the permit. The permittee shall collect 24-hour flow-proportioned composite samples of final effluent from outfall 001 in accordance with Part 1.A. of this permit. The acute tests to use are:
 - 48 Hour Static Acute test using Americanysis bahia and 48 Hour Static Acute test using Cyprinodon variegatus

These acute tests shall be performed with a minimum of 5 dilutions, derived geometrically, for the calculation of a valid LC_{50} . Express the results as TU_a (Acute Toxic Units) by dividing 100/ LC_{50} for reporting. Both species should be analyzed at the same time from the 24-hour flow-proportioned composite sample. Toxicity samples shall be taken at the same time as the other chemical parameter monitoring listed in Part I.A. of this permit for outfall 001.

Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.

- b. The permittee may provide additional samples to address data variability during the period of initial data generation. These data shall be reported and may be included in the evaluation of the effluent toxicity. Test procedures and reporting shall be in accordance with the WET testing methods cited in 40 CFR 136.3.
- c. The test dilutions shall be able to determine compliance with the following endpoints:
 - (1) Acute LC₅₀ of 6% equivalent to a TU_a of 16.7
- d. All applicable data will be evaluated for reasonable potential at the conclusion of the test period. The data may be evaluated sooner if requested by the permittee, or if toxicity has been noted. Should evaluation of the data indicate that a limit is needed, a WET limit and compliance schedule will be required and the toxicity tests of D.1.a. may be discontinued.

2. Reporting Schedule

The permittee shall report the results and supply one complete copies of the toxicity test report to the Tidewater Regional Office in accordance with the schedule below. A complete report must contain a copy of all laboratory benchsheets, certificates of analysis, and all chain of custodies.

(a)	Conduct first annual TMP test for outfall 001 using Americamysis bahia and Cyprinodon variegatus	By December 31, 2014
(b)	Submit results of all biological tests	By the 10 th of the month following sampling but no later than January 10, 2015
(c)	Conduct subsequent annual TMP tests for outfall 001 using Americamysis bahia and Cyprinodon variegatus	By December 31, 2015, 2016, and 2017
(d)	Submit subsequent annual biological tests	By the 10 th of the month following sampling but no later than January 10, 2016, 2017, and 2018

ATTACHMENT 9

RECEIVING WATERS INFO./
TIER DETERMINATION/STORET DATA/
STREAM MODELING

303(d) LISTED SEGMENTS

Planning Permit Review

Date: 5/4/2012

To: Jen Howell for Kristie Britt, TRO

Permit Writer: Deanna Austin Facility: HRSD-Boat Harbor STP

Permit Number: VA0081256

New or Renewal: Renewal

Permit Expiration Date: 1/27/2013

Waterbody ID: VAT G15 E Hampton Roads Proper for Outfall 001

Topo Name:

035B Newport News South

Facility Address 300 Terminal Ave Newport News, VA 23607

Receiving Stream:

Stream Name: James River-Outfal	N 001
Stream Data Requested for pH, Tem	np and Salinity Last 2 years VSee Attachment 2
Stream Data Requested?	
Outfall #: 001	Lat Lon: 36 57 25 76 24 43
Stream Name (2): Click here to ente	er text.
All stormwater outfalls are not monidetermination	itored-No Exposure Certifications have been given-No need for a tier
Stream Data Requested? Click her	re to enter text,

Planning Review:

303 (d): Indicate Outfalls which discharge direc	tly to an impaired
(Category 5) stream segment	
Outfall 001 discharges to impaired segment VAT-G15E (Attachment 1)	JMS05A06. Impairments include Chl a, DO, estuarine benthics, and PCBs
Click here to enter text.	
Tier Determination	
Tier The receiving stream is a Tier	l water due to the impairments. See Attachment l
Tier	
Management Plan	•
Is the facility Referenced in a Management Plan?	Yes, this facility is listed in the Virginia Water Quality Management Plan (VAC25-720-60C)
Are limits contained in a Management Plan?	Yes: TN 740,000 lbs/yr and TP 76,139 lbs/yr

Review will be completed in 30 days of receipt of request.

Additional Comments:

JSH 5/17/2012	 · · · · · · · · · · · · · · · · · · ·	 	
3311 3/1 //2012			



2010 Impaired Waters - 303(d) List

Category 5 - Waters needing Total Maximum Daily Load Study

	James River Bas Cause Group Code Impaired Use	Water Name	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
	G09R-02-BAC Recreation	Diascund Creek Escherichia coli	5A			6.88	2008	2020
	G09R-02-DO Aquatic Life	Diascund Creek Oxygen, Dissolved	5C			6.88	2008	2020
4	G10E-04-CHLA	James River - Lower						
	Aquatic Life	Chlorophyll-a	5A	126.390			2008	2010
		Chlorophyll-a	5A	0.782			2010	2010
	Open-Water Aquatic Life	Chlorophyll-a	5A	126.390			2008	2010
		Chlorophyll-a	5A	0.782			2010	2010
	G10E-05-EBEN	James River Mainstem - Chickahominy R. to F	Hoa Point					
	Aquatic Life	Estuarine Bioassessments	5A	26.128			2004	2016
	G10E-06-BAC	College Creek						
	Recreation	Enterococcus	5A	0.568			2006	2018
	G10R-01-BAC Recreation	College Run Fecal Coliform	5A			2.39	2002	2014
	G10R-02-BEN Aquatic Life	Powhatan Creek Benthic-Macroinvertebrate Bioassessmen	its 5A			5.35	2002	2014
	G10R-03-DO	Dark Swamp LIT (VHC)						-
	Aquatic Life	Dark Swamp, UT (XHC) Oxygen, Dissolved	5A			1.30	2010	2022
4	G11E-05-EBEN	James River - Hog Point Downstream to West	side of Cr	aney Island				
	Aquatic Life	Estuarine Bioassessments	5A	24.428			2006	2018
		Estuarine Bioassessments	5A	73.889			2010	2022
	G11E-17-SF	Ballard Creek & Bay, James River - Ballard Sv	wamp Area	and Kings C	reek & Bav			
	Shellfishing	Fecal Coliform	5B	0.096	, , , , , , , , , , , , , , , , , , , ,		1998	2010
	•	Fecal Coliform	5B	0.068			2010	2022
	G11E-18-SF	Tylers Beach Boat Basin						
	Shellfishing	Fecal Coliform	5B	0.003			2004	2016
	_			5.555			200.	20.0
	G11E-19-SF Shellfishing	James River - Outside Chuckatuck Creek Fecal Coliform	5B	0.564			2010	2022
	-		36	0,364			2010	2022
	G11L-01-CU	Lee Hall Reservoir	•					
	Aquatic Life	Copper	5A		290.06		2004	2016
	Wildlife	Copper	5A		290.06		2004	2016
	G11L-01-DO	Lee Hall Reservoir						
	Aquatic Life	Oxygen, Dissolved	5A		290.06		2006	2018
	G11L-01-HG	Lee Hall Reservoir						
	Fish Consumption	Mercury in Fish Tissue	5A		290.06		2010	2022
	G11L-01-PCB	Lee Hall Reservoir						
	Fish Consumption	PCB in Fish Tissue	5A		290.06		2010	2022

Final 2010



2010 Impaired Waters - 303(d) List

Category 5 - Waters needing Total Maximum Daily Load Study

James River Basi Cause Group Code Impaired Use	Water Name	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Date
J16R-02-PH	Blackman Creek			d	***		
Aquatic Life	pH	5C			4.45	2004	2016
J17L-01-DO	Swift Creek Lake						
Aquatic Life	Oxygen, Dissolved	5A		102.42		2006	2018
J17R-01-BEN	Swift Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessment	s 5A			7.10	2010	2022
J17R-01-DO	Swift Creek						
Aquatic Life	Oxygen, Dissolved	5A			7.10	2002	2014
J17R-03-PH	Franks Branch						
Aquatic Life	рН	5C			10.02	2006	2018
J17R-05-PH	Church Branch						
Aquatic Life	рН	5C			2.56	2010	2022
J17R-06-DO	Nuttree Branch						
Aquatic Life	Oxygen, Dissolved	5C			5.31	2010	2022
J17R-06-PH	Nuttree Branch						
Aquatic Life	рН	5C			5.31	2010	2022
J17R-07-PH	Second Branch						
Aquatic Life	На	5C			5.84	2010	2022
J17R-08-DO	Swift Creek ·						
Aquatic Life	Oxygen, Dissolved	5A			3.66	2010	2022
J17R-09-BEN	Swift Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessment	s 5A			2.79	2010	2022
J17R-10-PH	Timsbury Creek						
Aquatic Life	рН	5C			6.65	2010	2022
J17R-11-PH	Long Swamp						
Aquatic Life	Hq	5C			3.65	2010	2022
JMSMH-DO-BAY	James River CBP segment JMSMH and Tidal	Tributarios	2				
Aquatic Life	Oxygen, Dissolved	5A	100.143			1998	2010
,	Oxygen, Dissolved	5A	18.371			2006	2010
Open-Water Aquatic Life	Oxygen, Dissolved	5A	100.143			1998	2010
	Oxygen, Dissolved	5A	18.371			2006	2010
IMSOH-DO-BAY	James River CBP segment JMSOH and Tidal	Tributaries	5				
Aquatic Life	Oxygen, Dissolved	5A	48.740			2006	2010
Open-Water Aquatic Life	Oxygen, Dissolved	5A	2.212			2006	2010
JMSPH-BNUT-BAY	James River CBP segment JMSPH and Tidal	Tributaries	;				
Aquatic Life	Nutrient/Eutrophication Biological Indicator	s 5A	25.011			2010	2010



2010 Impaired Waters - 303(d) List

Category 5 - Waters needing Total Maximum Daily Load Study

APPTF-SAV-BAY Aquatic Life		Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	List Date	Dev. Date
Aquatic Life	Appomattox River						
Aquado eno	Aquatic Plants (Macrophytes)	5A	2.705			2006	2010
Shallow-Water Submerged Aquatic Vegetation	d Aquatic Plants (Macrophytes)	5A	2.705			2006	2010
EBEMH-DO-BAY	Eastern Branch Elizabeth River, Broad (Creek and Indian	River				
Aquatic Life	Oxygen, Dissolved	5A	2.287			2006	2010
Open-Water Aquatic Life	Oxygen, Dissolved	5A	2.287			2006	2010
ELIPH-DO-BAY	Chesapeake Bay segment ELIPH (Eliza	beth River Mains	stem)				
Aquatic Life	Oxygen, Dissolved	5A	8.162			2006	2010
Open-Water Aquatic Life	Oxygen, Dissolved	5A	8.162			2006	2010
G01E-01-BAC	James River						
Recreation	Escherichia coli	5A	1.466			1996	2010
	Escherichia coli	5A	2.828			2006	2010
	Escherichia coli	5A	1.964			2008	2010
G01E-02-CHLA	James River						
Aquatic Life	Chlorophyll-a	5A	5.512			2008	2010
Open-Water Aquatic Life	Chlorophyll-a	5A	5.512			2008	2010
G01E-03-PCB	James River and Various Tributaries						
Fish Consumption	PCB in Fish Tissue	5A	62.773			2002	2014
·	PCB in Fish Tissue	5A	1.837			2004	2016
	PCB in Fish Tissue	5A	191.816			2006	2018
	PCB in Fish Tissue	5D			7.50	2006	2018
	PCB in Fish Tissue	5A	0.012			2008	2014
	PCB in Fish Tissue	5A	0.003			2010	2018
G01L-01-BAC	Falling Creek Reservoir						
Recreation	Escherichia coli	5A		88.37		2008	2020
G01L-01-PH	Falling Creek Reservoir						
Aquatic Life	рН	5C		88.37		2010	2022
G01R-01-BAC	Goode Creek						
Recreation	Escherichia coli	5A			1.25	2006	2014
G01R-02-BAC	Almond Creek						
Recreation	Escherichia coli	5A			2.36	2006	2010
		J.			2.00	2000	2010
	XVO and XVP (Almond Creek, UTs)	.			0.54	2224	2212
Aquatic Life	рН	5A			0.54	2004	2016
G01R-03-BAC	Falling Creek						
Recreation	Escherichia coli	5A			3.11	2006	2014
G01R-04-BAC	Falling Creek						
Recreation	Escherichia coli	5A			16.99	2006	2018
G01R-04-DO	Falling Creek						
Aquatic Life	Oxygen, Dissolved	5A			0.98	2008	2020
Final 2010		3.3a - 14					

James River Basin

Cause Group Code: G10E-04-CHLA James River - Lower

Location: The mainstem of the James River within the Mesohaline and Polyhaline portions of the James Estuary.

City / County: Hampton City

Isle Of Wight Co.

James City Co. Newport News City Norfolk City

Portsmouth City

Suffolk City Surry Co.

Use(s): Aquatic Life

Open-Water Aquatic Life

Cause(s) /

VA Category: Chlorophyll-a / 5A

The Chlorophyll a - Spring criteria for Plankton failed for the 2008 assessment. The Chlorophyll a - Summer criteria is meeting for the 2008 assessment period.

James River - Lower Estuary Reservoir River (Sq. Miles) (Acres) (Miles) **Aquatic Life** Chlorophyll-a - Total Impaired Size by Water Type: 127.172

James River - Lower Estuary Reservoir River (Sq. Miles) (Miles) (Acres)

Open-Water Aquatic Life

Chlorophyli-a - Total Impaired Size by Water Type: 127.172

Sources:

Industrial Point Source Discharge

Municipal Point Source Discharges

Non-Point Source

James River Basin

Cause Group Code: G11E-05-EBEN

James River - Hog Point Downstream to West side of Craney Island

Location: This cause encompasses the James River Mainstern, from area of Hog Point (coincident with the CBP segment JMSMH line) downstream to West side of

Craney Island (coincident with the end of CBP segment JMSMH. CBP segment JMSMH.

City / County: Isle Of Wight Co.

James City Co.

Newport News City

Portsmouth City

Suffolk City

Surry Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Estuarine Bioassessments / 5A

The Aquatic Life Use is impaired based on failure to meet a statistical evaluation constituting an un-impacted benthic organism population per CBP (Benthic-

BIBI) analysis. The source/stressor tool yielded an unknown source for the impairment.

The TMDL due date is 2022.

James River - Hog Point Downstream to West side of Craney Island

Estuary (Sq. Miles) Reservoir (Acres)

River (Miles)

Aquatic Life

Estuarine Bioassessments - Total Impaired Size by Water Type:

98.316

Sources:

Source Unknown

James River Basin

Cause Group Code: JMSMH-DO-BAY James River CBP segment JMSMH and Tidal Tributaries

Location: This cause encompasses the entirety of the James River CBP segment JMSMH and tidal tributaries. From start of JMSMH salinity boundary (Hog Island

Creek) downstream to line between Blunt Point NN) /Goodwin Pt. (Isle of Wight). CBP segment JMSMH.

City / County: Isle Of Wight Co.

James City Co.

Newport News City

Portsmouth City

Suffolk City

Surry Co.

Use(s): Aquatic Life

Open-Water Aquatic Life

Cause(s) /

VA Category: Oxygen, Dissolved / 5A

The Aquatic Life and Open-Water Aquatic Life Use is impaired based on failure to meet the dissolved oxygen criteria for Open Water - Summer. The 30-day dissolved oxygen criteria for Open Water Use failed for the 2008 assessment. There is insufficient data to assess remaining shorter-term dissolved oxygen criteria for this use. The mainstem James River was included in EPA's 1998 303(d) Overlisting as impaired of the Aquatic Life Use; the impairment was attributed to excessive nutrients. During the 2006 cycle, the revised Chesapeake Bay water quality standards were adopted.

1998 CD segment for nutrients (Attachment A, Category 1, Part 2) VAT-G10E-04.

James River CBP segment JMSMH and Tidal Tributaries

Estuary (Sq. Miles) Reservoir (Acres)

River (Miles)

Aquatic Life

Oxygen, Dissolved - Total Impaired Size by Water Type:

118.514

Reservoir (Acres)

River

James River CBP segment JMSMH and Tidal Tributaries

Open-Water Aquatic Life

Oxygen, Dissolved - Total Impaired Size by Water Type:

(Sq. Miles) 118.514

Estuary

(Miles)

Sources:

Agriculture

Atmospheric Deposition -

Nitrogen

Industrial Point Source

Internal Nutrient Recycling

Discharge

Loss of Riparian Habitat

Municipal Point Source

Discharges

Sources Outside State Jurisdiction or Borders

Wet Weather Discharges (Non-Point Source)

Wet Weather Discharges (Point Source and Combination of Stormwater. SSO or CSO)

James River Basin

Cause Group Code: G01E-03-PCB James River and Various Tributaries

Location: Estuarine James River from the fall line to the Hampton Roads Bridge Tunnel, including several tributaries listed below: Appoint to the Hampton Roads Bridge Tunnel, including several tributaries listed below: Appoint to the Hampton Roads Bridge Tunnel, including several tributaries listed below: Appoint to the Hampton Roads Bridge Tunnel, including several tributaries listed below: Appoint to the Hampton Roads Bridge Tunnel, including several tributaries listed below: Appoint to the Hampton Roads Bridge Tunnel, including several tributaries listed below: Appoint to the Hampton Roads Bridge Tunnel, including several tributaries listed below: Appoint to the Hampton Roads Bridge Tunnel, including several tributaries listed below: Appoint to the Hampton Roads Bridge Tunnel, including several tributaries listed below: Appoint to the Hampton Roads Bridge Tunnel, including several tributaries listed below: Appoint to the Hampton Roads Bridge Tunnel, including several tributaries listed below: Appoint to the Hampton Roads Bridge Tunnel, including several tributaries listed below: Appoint to the Hampton Roads Bridge Tunnel, including several tributaries listed below to the Hampton Roads Bridge Tunnel tributaries listed below to the Hampton Roads Bridge Tunnel tributaries listed below to the Hampton Roads Bridge Tunnel tributaries listed below to the Hampton Roads Bridge Tunnel tributaries listed below to the Hampton Roads Bridge Tunnel tributaries listed below to the Hampton Roads Bridge Tunnel tributaries listed below to the Hampton Roads Bridge Tunnel tributaries listed below to the Hampton Roads Bridge Tunnel tributaries listed below to the Hampton Roads Bridge Tunnel tributaries listed below to the Hampton Roads Bridge Tunnel tributaries listed below to the Hampton Roads Bridge Tunnel tributaries listed below to the Hampton Roads Bridge Tunnel tributaries listed below to the Hampton Roads Bridge Tunnel tributaries listed below to the Hampton Roads Bridge Tunnel tributaries listed below to the Hampton Roads

Chesdin Dam

Bailey Creek up to Route 630

Bailey Bay

Chickahominy River up to Walkers Dam Skiffes Creek up to Skiffes Creek Dam Pagan River and its tributary Jones Creek

Chuckatuck Creek

Nansemond River and its tributaries Bennett Creek and Star Creek

Hampton River

Willoughby Bay and the Elizabeth R. system (Western, Eastern, and Southern Branches and Lafayette R.) and tributaries St. Julian Creek, Deep Creek,

and Broad Creek

City / County: Charles City Co.

Chesapeake City

Chesterfield Co.

Colonial Heights City Dinwiddie Co.

Hampton City New Kent Co.

Henrico Co. Newport News City

Hopewell City Norfolk City

Isle Of Wight Co. Petersburg City

James City Co. Portsmouth City

Prince George Co.

Richmond City

Suffolk City

Surry Co.

Virginia Beach City

Williamsburg City

Use(s): Fish Consumption

Cause(s) /

VA Category: PCB in Fish Tissue / 5A

PCB in Fish Tissue / 5D

The Fish Consumption Use is impaired based on the VDH fish consumption advisory for PCBs fish tissue contamination within the James River and select tidal tributaries, issued 12/13/04. During the 2002 cycle, the James River from the Fall line to Queens Creek was considered not supporting of the Fish Consumption Use due to PCBs in multiple fish species at multiple DEQ monitoring locations.

During the 2004 cycle, a VDH Fish Consumption Restriction was issued from the fall line to Flowerdew Hundred and the segment was adjusted slightly to match the Restriction.

However, during the 2006 cycle, the restriction was extended on 12/13/2004 to extend from the I-95 bridge downstream to the Hampton Roads Bridge Tunnel and include the tidal portions of the following tributaries:

Appomattox River up to Lake Chesdin Dam

Bailey Creek up to Route 630

Bailey Bay

Chickahominy River up to Walkers Dam

Skiffes Creek up to Skiffes Creek Dam

Pagan River and its tributary Jones Creek

Chuckatuck Creek

Nansemond River and its tributaries Bennett Creek and Star Creek

Hampton River

Willoughby Bay and the Elizabeth R. system (Western, Eastern, and Southern Branches and Lafayette R.) and tributaries St. Julian Creek, Deep Creek, and **Broad Creek**

James River Basin

The advisory was modified again on 10/10/2006 to add Poythress Run.

James River and Various Tributaries

Estuary Reservoir River
(Sq. Miles) (Acres) (Miles)

PCB in Fish Tissue - Total Impaired Size by Water Type: 256.441 7.50

Sources:

Contaminated Sediments

Source Unknown

Sources Outside State Jurisdiction or Borders

TMDL Permit Review

Date: 5/4/2012

To: Jennifer Howell, TRO

√JSH 5/17/2012

Permit Writer: Deanna Austin
Facility: HRSD-Boat Harbor STP
Permit Number: VA0081256

New or Renewal: Renewal

Permit Expiration Date: 1/27/2013

Waterbody ID: VAT G15 E Hampton Roads Proper for Outfall 001

Topo Name:

035 B Newport News South

Facility Address 300 Terminal Ave Newport News, VA 23607

Receiving Stream:

Stream Name: James River-Outfa	11 001
Click here to enter text.	
Stream Data Requested? YES: S	ee Planning Sheet
Outfall #: 001	Lat Lon: 36 57 25 76 24 43
Stream Name (2): Click here to ent	er text.
	itored-No Exposure Certifications have been given
Stream Data Requested? Click he	re to enter text.

Is there a design flow change? If yes give the change. No change

TMDL Review:

Has a TMDL been approved that includes the receiving stre	am?	
Yes, the receiving stream falls within Chesapeake Bay segment JMSN	І Н	
If yes, Include TMDL Name, Pollutant(s) and date of appro	val:	
Chesapeake Bay TMDL: EPA approved 21/29/2010: nitrogen, phosphore		
Is the facility assigned a WLA from the TMDL?	No	
If Yes, what is the WLA?	· · · · · · · · · · · · · · · · · · ·	

VA0081256 was listed in the Chesapeake Bay TMDL under Bay segment JMSMH as a non-significant discharger. Because an aggregated WLA exists, this permit did not receive an individual WLA. The aggregated WLA is presented as a delivered load for each of the impaired 92 Bay segments. (Appendix Q)

Review will be completed in 30 days of receipt of request.

Additional Comments:

A PCB TMDL for the tidal James River has an anticipated completion date of 2014.

ATTACHMENT 10

TABLE III(a) AND TABLE III(b) - CHANGE SHEETS

TABLE III(a)

VPDES PERMIT PROGRAM Permit Processing Change Sheet

1. Effluent Limits and Monitoring Schedule: (List any changes FROM PREVIOUS PERMIT and give a brief rationale for the changes).

PARAMETER CHANGED	MONITORING LIMITS CHANGED FROM / TO	EFFLUENT LIMITS CHANGED FROM / TO	RATIONALE	DATE & INITIAL
	{			
				

F OTHER CHANGES:	COMMENTS:	DATE & INITIAL
Changed boilerplate language to include the VELAP information		5/25/12 DDA
Changed special condition C.11 (Sludge Management Plan) to not have a VDH reference since they no longer are involved in the program.		5/25/12 DDA
QL changed for BOD from 5 mg/l to 2 mg/l.	Changed to be consistent with other HRSD permits.	5/25/12 DDA

TABLE III(b)

VPDES PERMIT PROGRAM Permit Processing Change Sheet

1. Effluent Limits and Monitoring Schedule: (List any changes MADE DURING PERMIT PROCESS and give a brief rationale for the changes).

I I		
		-
CHANGED TO:	· · · · · · · · · · · · · · · · · · ·	DATE &
	CHANGED TO:	

ATTACHMENT 11 EPA PERMIT CHECKLIST

State "Transmittal Checklist" to Assist in Targeting Municipal and Industrial Individual NPDES Draft Permits for Review

Part I. State Draft Permit Submission Checklist

Facility Name:

In accordance with the MOA established between the Commonwealth of Virginia and the United States Environmental Protection Agency, Region III, the Commonwealth submits the following draft National Pollutant Discharge Elimination System (NPDES) permit for Agency review and concurrence.

HRSD-Boat Harbor STP

Permit Writer Name: Deanna Austin Date: 5/25/12 Major [X] Minor [] Industrial [] Municipal [X] I.A. Draft Permit Package Submittal Includes: Yes No N/A Permit Application? X Complete Draft Permit (for renewal or first time permit – entire permit, including boilerplate information)? X Complete Fact Sheet? X Complete Fact Sheet? X A Priority Pollutant Screening to determine parameters of concern? X A Reasonable Potential analysis showing calculated WQBELs? X T. Dissolved Oxygen calculations? X Whole Effluent Toxicity Test summary and analysis? X Permit Rating Sheet for new or modified industrial facilities? X I. Is this a new, or currently unpermitted facility? X A re all permissible outfalls (including combined sewer overflow points, non-process water and storm water) from the facility properly identified and authorized in the permit? X Does the fact sheet or permit contain a description of the wastewater treatment process? X I. B. Permit/Facility Characteristics - cont. Yes No N/A Does the review of PCS/DMR data for at least the last 3 years indicate significant non-compliance with the existing permit? X S. Has there been any change in streamflow characteristics since the last permit was developed? X	N	PDES Permit Number:	VA0081256	, de 1800 de 1800 de 1800 de 1800 de 1800 de 1800 de 1800 de 1800 de 1800 de 1800 de 1800 de 1800 de 1800 de 1			
Najor [X] Ninor [] Industrial [] Municipal [X]	P	ermit Writer Name:	Deanna Austin				
I.A. Draft Permit Package Submittal Includes: 1. Permit Application? 2. Complete Draft Permit (for renewal or first time permit – entire permit, including boilerplate information)? 3. Copy of Public Notice? 4. Complete Fact Sheet? 5. A Priority Pollutant Screening to determine parameters of concern? 6. A Reasonable Potential analysis showing calculated WQBELs? 7. Dissolved Oxygen calculations? 8. Whole Effluent Toxicity Test summary and analysis? 9. Permit Rating Sheet for new or modified industrial facilities? 1. B. Permit/Facility Characteristics Yes No N/A 1. Is this a new, or currently unpermitted facility? 2. Are all permissible outfalls (including combined sewer overflow points, non-process water and storm water) from the facility properly identified and authorized in the permit? 3. Does the fact sheet or permit contain a description of the wastewater treatment process? 1. B. Permit/Facility Characteristics – cont. Yes No N/A 4. Does the review of PCS/DMR data for at least the last 3 years indicate significant non-compliance with the existing permit? 5. Has there been any change in streamflow characteristics since the last permit	D	ate:	5/25/12				
1. Permit Application? 2. Complete Draft Permit (for renewal or first time permit – entire permit, including boilerplate information)? 3. Copy of Public Notice? 4. Complete Fact Sheet? 5. A Priority Pollutant Screening to determine parameters of concern? 6. A Reasonable Potential analysis showing calculated WQBELs? 7. Dissolved Oxygen calculations? 8. Whole Effluent Toxicity Test summary and analysis? 9. Permit Rating Sheet for new or modified industrial facilities? Yes No N/A 1. Is this a new, or currently unpermitted facility? 2. Are all permissible outfalls (including combined sewer overflow points, non-process water and storm water) from the facility properly identified and authorized in the permit? 3. Does the fact sheet or permit contain a description of the wastewater treatment process? I.B. Permit/Facility Characteristics – cont. Yes No N/A 4. Does the review of PCS/DMR data for at least the last 3 years indicate significant non-compliance with the existing permit? 5. Has there been any change in streamflow characteristics since the last permit	I	Major [X]	Minor[]	Industrial []	Municipal [X]		
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including boilerplate information)? 3. Copy of Public Notice? 4. Complete Fact Sheet? 5. A Priority Pollutant Screening to determine parameters of concern? 6. A Reasonable Potential analysis showing calculated WQBELs? 7. Dissolved Oxygen calculations? 8. Whole Effluent Toxicity Test summary and analysis? 9. Permit Rating Sheet for new or modified industrial facilities? 1.B. Permit/Facility Characteristics Yes No N/A 1. Is this a new, or currently unpermitted facility? 2. Are all permissible outfalls (including combined sewer overflow points, non-process water and storm water) from the facility properly identified and authorized in the permit? 3. Does the fact sheet or permit contain a description of the wastewater treatment process? 1.B. Permit/Facility Characteristics - cont. Yes No N/A 4. Does the review of PCS/DMR data for at least the last 3 years indicate significant non-compliance with the existing permit? 5. Has there been any change in streamflow characteristics since the last permit	1.	Permit Application?			x		
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5. A Priority Pollutant Screening to determine parameters of concern? 6. A Reasonable Potential analysis showing calculated WQBELs? 7. Dissolved Oxygen calculations? 8. Whole Effluent Toxicity Test summary and analysis? 9. Permit Rating Sheet for new or modified industrial facilities? X I.B. Permit/Facility Characteristics Yes No N/A 1. Is this a new, or currently unpermitted facility? 2. Are all permissible outfalls (including combined sewer overflow points, non-process water and storm water) from the facility properly identified and authorized in the permit? 3. Does the fact sheet or permit contain a description of the wastewater treatment process? I.B. Permit/Facility Characteristics - cont. Yes No N/A 4. Does the review of PCS/DMR data for at least the last 3 years indicate significant non-compliance with the existing permit? 5. Has there been any change in streamflow characteristics since the last permit	3.	Copy of Public Notice?		X			
6. A Reasonable Potential analysis showing calculated WQBELs? 7. Dissolved Oxygen calculations? 8. Whole Effluent Toxicity Test summary and analysis? 9. Permit Rating Sheet for new or modified industrial facilities? X I.B. Permit/Facility Characteristics Yes No N/A 1. Is this a new, or currently unpermitted facility? 2. Are all permissible outfalls (including combined sewer overflow points, non-process water and storm water) from the facility properly identified and authorized in the permit? 3. Does the fact sheet or permit contain a description of the wastewater treatment process? I.B. Permit/Facility Characteristics - cont. Yes No N/A 4. Does the review of PCS/DMR data for at least the last 3 years indicate significant non-compliance with the existing permit? 5. Has there been any change in streamflow characteristics since the last permit	4.	Complete Fact Sheet?	×				
7. Dissolved Oxygen calculations? 8. Whole Effluent Toxicity Test summary and analysis? 9. Permit Rating Sheet for new or modified industrial facilities? Yes No N/A 1. Is this a new, or currently unpermitted facility? 2. Are all permissible outfalls (including combined sewer overflow points, non-process water and storm water) from the facility properly identified and authorized in the permit? 3. Does the fact sheet or permit contain a description of the wastewater treatment process? Yes No N/A 1. Is this a new, or currently unpermitted facility? X 2. Are all permissible outfalls (including combined sewer overflow points, non-process water and storm water) from the facility properly identified and authorized in the permit? X 1. B. Permit/Facility Characteristics – cont. Yes No N/A 4. Does the review of PCS/DMR data for at least the last 3 years indicate significant non-compliance with the existing permit? 5. Has there been any change in streamflow characteristics since the last permit	5.	5. A Priority Pollutant Screening to determine parameters of concern?					
8. Whole Effluent Toxicity Test summary and analysis? 9. Permit Rating Sheet for new or modified industrial facilities? X I.B. Permit/Facility Characteristics Yes No N/A 1. Is this a new, or currently unpermitted facility? 2. Are all permissible outfalls (including combined sewer overflow points, non-process water and storm water) from the facility properly identified and authorized in the permit? 3. Does the fact sheet or permit contain a description of the wastewater treatment process? X I.B. Permit/Facility Characteristics - cont. Yes No N/A 4. Does the review of PCS/DMR data for at least the last 3 years indicate significant non-compliance with the existing permit? 5. Has there been any change in streamflow characteristics since the last permit	6.	6. A Reasonable Potential analysis showing calculated WQBELs?					
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I.B. Permit/Facility Characteristics Yes No N/A 1. Is this a new, or currently unpermitted facility? 2. Are all permissible outfalls (including combined sewer overflow points, non-process water and storm water) from the facility properly identified and authorized in the permit? 3. Does the fact sheet or permit contain a description of the wastewater treatment process? I.B. Permit/Facility Characteristics - cont. Yes No N/A 4. Does the review of PCS/DMR data for at least the last 3 years indicate significant non-compliance with the existing permit? 5. Has there been any change in streamflow characteristics since the last permit	8.	8. Whole Effluent Toxicity Test summary and analysis?					
1. Is this a new, or currently unpermitted facility? 2. Are all permissible outfalls (including combined sewer overflow points, non-process water and storm water) from the facility properly identified and authorized in the permit? 3. Does the fact sheet or permit contain a description of the wastewater treatment process? X I.B. Permit/Facility Characteristics - cont. Yes No N/A 4. Does the review of PCS/DMR data for at least the last 3 years indicate significant non-compliance with the existing permit? 5. Has there been any change in streamflow characteristics since the last permit	9.	Permit Rating Sheet for ne			X		
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process water and storm water) from the facility properly identified and authorized in the permit? 3. Does the fact sheet or permit contain a description of the wastewater treatment process? I.B. Permit/Facility Characteristics - cont. Yes No N/A 4. Does the review of PCS/DMR data for at least the last 3 years indicate significant non-compliance with the existing permit? 5. Has there been any change in streamflow characteristics since the last permit	1.	Is this a new, or currently	unpermitted facility	/?		X	
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The state of the s	4.					X	
	5.		ge in streamflow ch	naracteristics since the last permit		X	

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	Х	
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	X X X X X X X	X

Part II. NPDES Draft Permit Checklist

Region III NPDES Permit Quality Checklist – for POTWs (To be completed and included in the record <u>only</u> for POTWs)

II.A. Permit Cover Page/Administration	Yes	No	N/A
Does the fact sheet or permit describe the physical location of the facility, including latitude and longitude (not necessarily on permit cover page)?			
Does the permit contain specific authorization-to-discharge information (from where to where, by whom)?			

II.B. Effluent Limits - General Elements	Yes	No	N/A
Does the fact sheet describe the basis of final limits in the permit (e.g., that a comparison of technology and water quality-based limits was performed, and the most stringent limit selected)?	х		
 Does the fact sheet discuss whether "ant backsliding" provisions were met for any limits that are less stringent than those in the previous NPDES permit? 			×

11.0	C. Technology-Based Effluent Limits (POTWs)	Yes	No	N/A
1.	Does the permit contain numeric limits for <u>ALL</u> of the following: BOD (or alternative, e.g., CBOD, COD, TOC), TSS, and pH?	Х		
2.	2. Does the permit require at least 85% removal for BOD (or BOD alternative) and TSS (or 65% for equivalent to secondary) consistent with 40 CFR Part 133?			
	a. If no, does the record indicate that application of WQBELs, or some other means, results in more stringent requirements than 85% removal or that an exception consistent with 40 CFR 133.103 has been approved?			
3.	Are technology-based permit limits expressed in the appropriate units of measure (e.g., concentration, mass, SU)?	X		
4.	Are permit limits for BOD and TSS expressed in terms of both long term (e.g., average monthly) and short term (e.g., average weekly) limits?	X		
5.	Are any concentration limitations in the permit less stringent than the secondary treatment requirements (30 mg/l BOD5 and TSS for a 30-day average and 45 mg/l BOD5 and TSS for a 7-day average)?		×	
	a. If yes, does the record provide a justification (e.g., waste stabilization pond, trickling filter, etc.) for the alternate limitations?			X

	II.D. Water Quality-Based Effluent Limits	Yes	No	N/A
1.	Does the permit include appropriate limitations consistent with 40 CFR 122.44(d) covering State narrative and numeric criteria for water quality?	Х		-
2.	2. Does the fact sheet indicate that any WQBELs were derived from a completed and EPA approved TMDL?			×
II.D. Water Quality-Based Effluent Limits – cont.			No	N/A
3.	Does the fact sheet provide effluent characteristics for each outfall?	Х		
4.	Does the fact sheet document that a "reasonable potential" evaluation was performed?	X		
	a. If yes, does the fact sheet indicate that the "reasonable potential" evaluation was performed in accordance with the State's approved procedures?	Х		
	b. Does the fact sheet describe the basis for allowing or disallowing in-stream dilution or a mixing zone?	Х		
	c. Does the fact sheet present WLA calculation procedures for all pollutants that were found to have "reasonable potential"?			×
	d. Does the fact sheet indicate that the "reasonable potential" and WLA calculations accounted for contributions from upstream sources (i.e., do calculations include ambient/background concentrations)?	х		

i	e. Does the permit contain numeric effluent limits for all pollutants for which "reasonable potential" was determined?			X
5.	Are all final WQBELs in the permit consistent with the justification and/or documentation provided in the fact sheet?	Х		
6.	For all final WQBELs, are BOTH long-term AND short-term effluent limits established?		Х	
7.	Are WQBELs expressed in the permit using appropriate units of measure (e.g., mass, concentration)?	X		
8.	Does the record indicate that an "antidegradation" review was performed in accordance with the State's approved antidegradation policy?	Х		

	II.E. Monitoring and Reporting Requirements	Yes	No	N/A
1.	Does the permit require at least annual monitoring for all limited parameters and other monitoring as required by State and Federal regulations?	X		
	a. If no, does the fact sheet indicate that the facility applied for and was granted a monitoring waiver, AND, does the permit specifically incorporate this waiver?			
2.	Does the permit identify the physical location where monitoring is to be performed for each outfall?	Х		
3.	Does the permit require at least annual influent monitoring for BOD (or BOD alternative) and TSS to assess compliance with applicable percent removal requirements?		×	
4.	Does the permit require testing for Whole Effluent Toxicity?	Х		

II.F. Special Conditions	Yes	No	N/A
Does the permit include appropriate biosolids use/disposal requirements?			
2. Does the permit include appropriate storm water program requirements	? X		

11.1	II.F. Special Conditions – cont.			N/A
3.	If the permit contains compliance schedule(s), are they consistent with statutory and regulatory deadlines and requirements?			Х
4.	Are other special conditions (e.g., ambient sampling, mixing studies, TIE/TRE, BMPs, special studies) consistent with CWA and NPDES regulations?	Х		
5.	Does the permit allow/authorize discharge of sanitary sewage from points other than the POTW outfall(s) or CSO outfalls [i.e., Sanitary Sewer Overflows (SSOs) or treatment plant bypasses]?		X	•
6.	Does the permit authorize discharges from Combined Sewer Overflows (CSOs)?		×	
	a. Does the permit require implementation of the "Nine Minimum Controls"?			X
	b. Does the permit require development and implementation of a "Long Term Control Plan"?			×
	c. Does the permit require monitoring and reporting for CSO events?			×
7.	Does the permit include appropriate Pretreatment Program requirements?	Х		

II.G.	Standard Conditions		Yes	No	N/A
Does the permit contain all 4 equivalent (or more stringent)	Х				
List of Standard Conditions – 4	0 CFR 122.41				
Duty to comply Duty to reapply Need to halt or reduce activity not a defense Duty to mitigate Proper O & M Permit actions	Property rights Duty to provide information Inspections and entry Monitoring and records 'Signatory requirement Bypass Upset	Reporting R Planned Anticipal Transfer Monitori Complia 24-Hour Other no	change ted nond s ng repor nce sch reportin	complia ts edules g	nce
equivalent or more stringent of	dditional standard condition (or the onditions) for POTWs regarding nand new industrial users [40 CFR	otification of	X		

.

Part III. Signature Page

Date

Based on a review of the data and other information submitted by the permit applicant, and the draft permit and other administrative records generated by the Department/Division and/or made available to the Department/Division, the information provided on this checklist is accurate and complete, to the best of my knowledge.

Name Deanna Austin

Title Environmental Specialist Senior II

Signature

5/25/12

ATTACHMENT 12

CHRONOLOGY SHEET

Chronology

Facility Name: HRSD - Boat Harbor Sewage Treatment Plant

VA0081256

Event	Date	Comment
Application fee deposited:	_	NA-Reissuance
Comments rec'vd from State Agencies on App:		5/10/12 VDH
First Application Reminder Phone Call:	_	NA-App received 5/3/12
Second Application Reminder Phone Call:		NA-App received 5/3/12
VDH concurrence on draft permit:		NA-Not Requested
Site visit:	— 5/6/2011	
Site inspection report:	— 5/12/2011	
Application received at RO 1st time:	5/3/2012	
Public notice authorization received from owner:	5/3/2012	
App complete letter sent to permittee:	— 5/4/2012	
App sent to State Agencies (list in comment field):	5/4/2012	VDH, DSS, VMRC
Application Administratively complete:	— 5/4/2012	
Application totally / technically complete:	- 5/4/2012	
Draft permit developed:	— 5/25/2012	
Old expiration date:	— 1/27/2013	
Permit effective:	— 1/27/2013	
First DMR due:	— 3/10/2013	
Permit expires:	1/28/2018	